



NetVu **CONSOLE**

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Whilst every attempt is made to ensure these manuals are accurate and current, Dedicated Micros reserve the right to alter or modify the specification of the machine described herein without prejudice.

Introduction



What is the...

High Definition NetVu Console ?

Enabling customers to deploy an additional viewing & control station with minimal installation requirements, NetVu Console allows a traditional telemetry keyboard and monitor combination to be placed anywhere the customer requires with no need to retrain operators. All that is required is an IP connection and power.

NetVu Console ensures multiple DVR systems can seamlessly be linked to a single point of control with only an Ethernet network connection. Because it is linked via the network, the position and quantity of control locations now becomes flexible, providing a truly seamless and expansive CCTV solution.

Ideal for installing extra control positions that duplicate the local control functionality of the DVR, the NetVu Console is connected to the associated units and cameras via an IP connection, utilising the IP/Analogue conversion capability of its embedded decoder.

The flexibility of the unit allows operators to control cameras from a number of NetVu Connected DVRs or Servers, providing greater freedom to users wishing to expand the control of their network without incurring the significant associated cost.

For further information, please visit the website:

www.dedicatedmicros.com

Features

The HD NetVu Console from Dedicated Micros is equipped with an array of valuable features designed to enhance the operator experience.

- Operates as Console providing a centralised viewing and control monitor
- Also provides Encoder or DVR functionality
- Versatile video server
- Compatible with any video input; analogue, IP or megapixel
- Encode inputs into simultaneous multiple streams of MPEG4 and MJPEG
- Recoding 3rd party IP cameras for data analysis, alarms and analytics
- Decoder capability for viewing remote video
- Integrated Camera Recording (ICR) capability
- Real-time recording per camera
- PoE capability removes the need for a dedicated power source
- Multicasting – push any video stream onto a network for viewing by multiple users
- HDMI Main monitor output for high definition display
- Dual ethernet connections
- AnalyticsCapable
- On-screen telemetry control with Point&Go and Absolute Positioning
- Text support - capture text and embed till, ATM or analytics data with video
- Serial and IP Telemetry Control
- MultiMode Recording
- TransCoding - High quality recording and simultaneous video transmission using MPEG4 or JPEG for playback
- Per camera Polymorphic streams change resolution, bit rate and compression mid stream
- Embedded Operating System



The HD NetVu Console has NetVu Connected technology built-in to ensure maximum compatibility with future developments in networked security. NetVu Connected technology enables the HD NetVu Console to fully interact with other NetVu Connected compatible products from DM including NetVu ObserVer. Providing interoperability between the worlds leading security companies, NetVu Connected uses industry standard networking protocols supported by a wide range of third party integration products and SDKs to ensure future on-going compatibility.

Point&go provides the user with easy to use, fast, accurate telemetry control via an attached monitor. With no need for a telemetry keyboard, users are able to use Pan & Tilt control of a Dedicated Micros Oracle Dome simply by clicking an area of the monitor. The camera will instantly respond, positioning the selected area in the middle of the screen, ideal for tracking movement through a scene.

MAP

Users can now navigate around their CCTV installation using a graphical map. Selecting the relevant camera from the map will instantly connect the user to that camera's image stream. With the ability to load bespoke map images and floor plans to reflect their installations, the Maps feature is ideal for quickly identifying camera locations around a site or CCTV network.

COMMON CONFIGURATION INTERFACE

A Common Configuration interface is displayed when the unit's configuration screens are accessed locally at the unit or remotely via a web browser. This unified system ensures that the installer is familiar with the configuration screens irrespective of their location to the unit, minimising training and familiarisation time and increasing the speed of installation and alteration.

The HD NetVu Console includes the unique colour-coded, soft key menu structure and on-screen Graphical User Interface (GUI). Context sensitive, the menu structure always represents the area of the menu the user is in, allowing them to quickly select the options and settings they need without having to trawl through menu pages and options.

VIDEO TIMELINE



The Video Timeline feature is an intuitive interface for the control and navigation of playback video. With control via the colour-coded on-screen buttons, the user is able to control the video forward or backwards in incremental steps of seconds, minutes, hours, days and weeks.

MultiMode Recording

*The unit supports **MultiMode** recording in DVR mode which is a storage technology developed by Dedicated Micros. This offers the ability to set different recording rates, resolutions and compression formats across scheduled, normal and alarm modes for each individual camera.*

*By varying the quality, bit rate and file size of the recorded images, the **MultiMode** function can increase recording capabilities of the unit.*

MultiMode offers:

- Ability to set different recording resolutions.
- Ability to set and switch MPEG or JPEG compression recording as required.
- Ability to set PPS recording rate per camera.
- Dynamically switchable resolution when switching from Normal to Event recording.
- Dynamically switchable compression between MPEG4 and JPEG from Normal to Event recording.

Design of the manual

For ease of use, this manual has three parts:

- | | |
|------------------|--|
| 1. Installation | Shows details of how to install the unit and connect external devices. |
| 2. Configuration | Shows details of the units menus. |
| 3. Operation | Shows quick reference details on how to control the unit. |

Important Safeguards

Read Instructions

All the safety and operating instructions should be read before the unit is operated.

Power Sources

This unit should be operated only from the type of power source indicated on the manufacturer's label.

Servicing

Do not attempt to service this unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards.

Refer all servicing to qualified service personnel.

Ventilation

Ensure unit is properly ventilated to protect from overheating.

All the safety and operating instructions should be read before the unit is operated.



To prevent fire or shock hazard, do not expose this equipment to rain or moisture. The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user of this equipment that there are dangerous voltages within the enclosure which may be of sufficient magnitude to constitute a risk of electric shock.

WARNING

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Lightning Strike

The unit has some in-built protection for lightning strike, however it is recommended that isolation transformers be fitted to the system in areas where lightning is a common occurrence.

Regulatory Notes and FCC and DOC Information

(USA and Canadian Models Only)

Warning: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at their own expense.

If necessary, the user should consult the dealer or an experienced radio/television technician for corrective action. The user may find the following booklet prepared by the Federal Communications Commission helpful: "How to Identify and Resolve Radio-TV Interference Problems".

This booklet is available from the US Government Printing Office, Washington, DC20402, Stock No. 004-000-00345-4.

This reminder is provided to call the CCTV system installer's attention to Art. 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

CE Mark



If this product is marked with the CE symbol it indicates compliance with all applicable directives.

Directive 89/336/EEC.

A 'Declaration of Conformity' is held at Dedicated Micros Ltd.,

1200 Daresbury Park, Daresbury, Cheshire, WA4 4HS, UK.

Installing the Unit

Before you start

Check the contents of the box

Remove all items from the packaging and check the items listed below are present:

- HD NetVu onsole
- 24Vdc PSU
- Mains cables
- NetVu Console Keyboard
- USB Mouse
- Quick Start Guide
- External Storage Setup Guide
- Installation and Operation Guide (CD)

If any of these items are missing, please contact Dedicated Micros Technical Support team.

Note: *Before installing the unit, carefully read all Safety Instructions and the following information on where the unit should be located.*

Choosing a location for installation

- Ensure the unit is properly ventilated to protect from overheating.
- Ensure the unit is not located anywhere it could be subject to extreme mechanical shocks.
- The unit should be located in an area with low humidity and a minimum of dust.
- If the unit is to be installed in a closed assembly, the maximum operating temperature must not exceed 40°C (104°F).

Electrical Connections

Please ensure the following are available and have been tested prior to the installation:

- Mains point (recommended)
- Network point
- Network cable
- Active video signals i.e. at least one working camera feed
- PC with CD ROM drive and connection to the same network as the HD NetVu Console unit

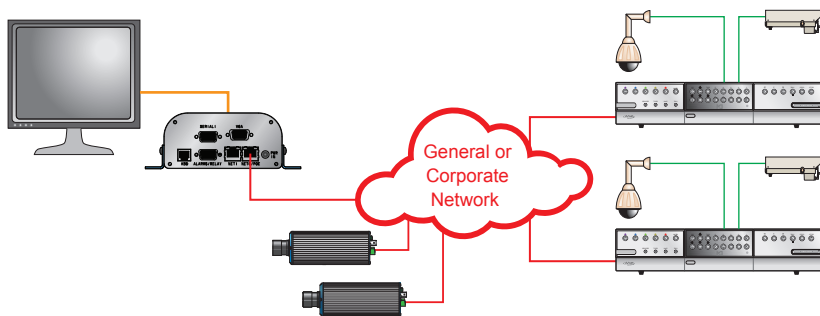
Modes of operation

The HD NetVu Console can be set to operate in 'Encoder' 'Console' or 'DVR' mode on the Features page, refer to 'Features'. Any configured settings are reset to factory defaults when the mode of operation is changed.

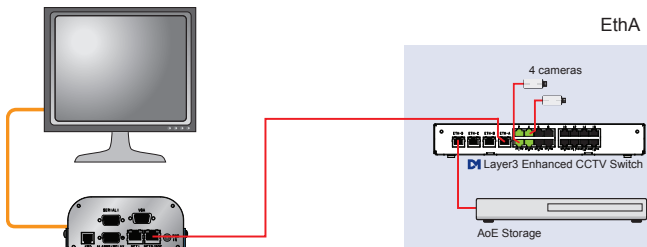
IMPORTANT: *The options and pages available in the Configuration and Viewer menus will differ depending on the mode of operation selected.*

Console Mode

The HD NetVu Console can be configured to decode remote NetVu connected IP sources (individual cameras, encoders or servers) and display them on the local monitor. NetVu connected streams can be viewed live, recordings from attached servers or ICR devices can be viewed via the HD NetVu Console capability embedded within the unit.



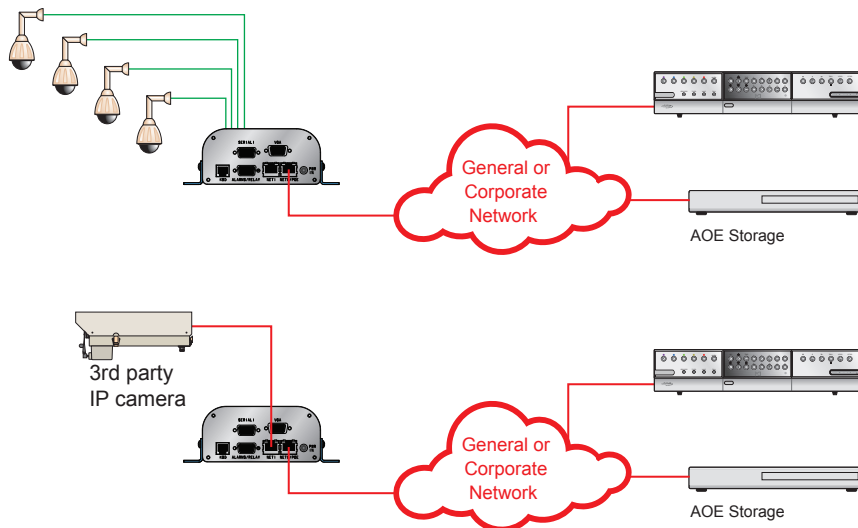
Pure IP Solution



Encoder Mode

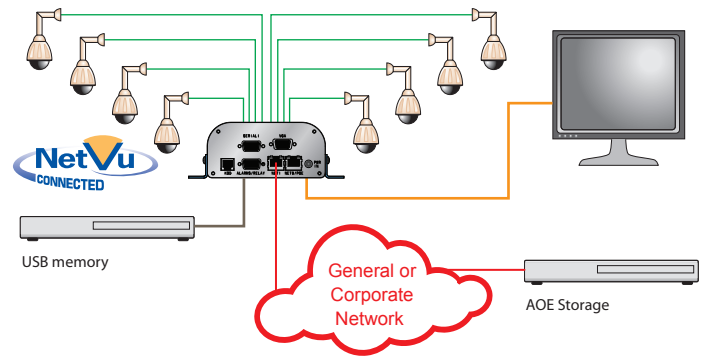
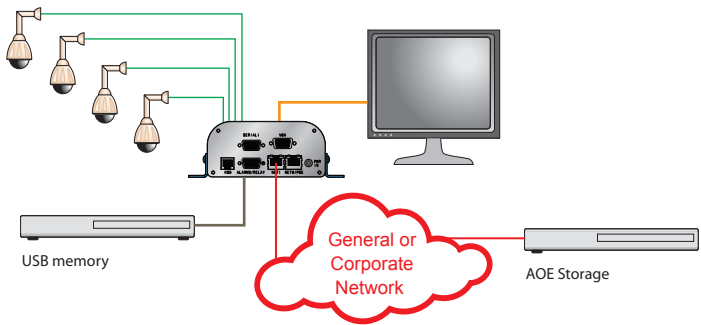
Connect up to 4 analogue cameras to the BNC inputs labelled 'CAM 1' to 'CAM 4'. If one or more of these cameras have PTZ control; RS485 telemetry can be utilised via a connection to the HD NetVu Console's serial port.

In place of an analogue cameras, a 3rd party IP camera can be connected to the Ethernet port labelled 'NET1' for recording as a NetVu connected device. The ICR capability allows encoded cameras to be recorded to the HD NetVu Console's SD card or to an AoE device.



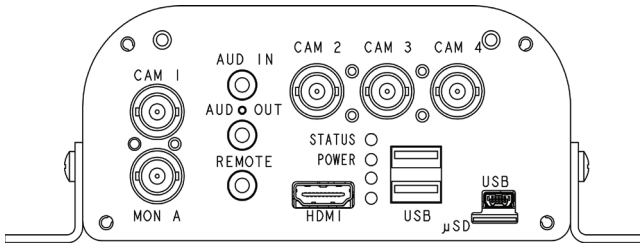
DVR Mode

The HD NetVu Console is also a fully fledged, enterprise class video server supporting analog and IP inputs. With embedded ICR (Integrated Camera Recording) Technology; the HD NetVu Console can make any analogue or IP camera into an edge-located recording device. Recording can be via a removable micro SD card, external USB drive or ATA over Ethernet (AoE) drive / RAID.



Installation

Front Panel connections



Data

USB	3x USB connector (2 normal / 1 micro size)
LEDs	Power Will illuminate when power is connected to the unit
	Status Will illuminate when the unit is active
REMOTE	Infra-Red Input connector for IR Remote Control Extender
SD	Micro SD card port - available as storage for video footage in DVR and Encoder ICR modes.

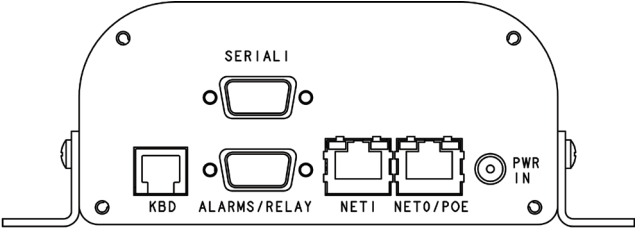
Video

CAM1 to CAM4	75Ω BNC composite video input, 1V pk-pk
MON A	75Ω BNC composite monitor output, 1V pk-pk
HDMI	High-Definition Multimedia Interface connector

Audio

AUDIO IN	3.5mm (phono) socket, 8KHz/16KHz/22KHz sampling 75Ω input impedance, 1V pk-pk
AUDIO OUT)	3.5mm (phono) socket, line level <100Ω output impedance, 1V pk-pk amplification required

Rear Panel connections



Data

SERIAL 1	RS-232 / RS-485 / RS-422 (3 wire & 9 wire)
NET 1	RJ45 Ethernet network connector, 10/100 Mb/s Ethernet Network
NET 0 /POE	RJ45 Ethernet network connector, 10/100 Mb/s Ethernet Network / Power Over Ethernet : IEEE 802.3-2008. End span and bridging
KBD	RJ12 connector for NetVu Console Keyboard

Note: The Serial 1 port and the keyboard connector utilise the same 485 bus which can provide either keyboard support or telemetry. Console mode uses to keyboard operation.

Alarms and relays

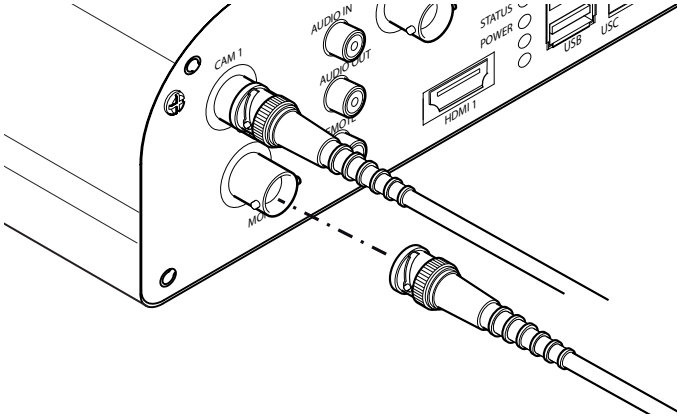
ALARMS	Via 9 way (female) D Type 24V 200mA 4 General Alarm Inputs Range of Alarm states are i. 0 – 800R = Short circuit ii. 800R – 2K = closed contact iii. 2k – 12k = open contact iv. > 12K = open circuit.
RELAYS	Via 9 way (female) D Type rated at 24V 200mA 1 onboard light duty relay output (500mA@12V-48V Max)

Power

POWER	2-way terminal connector (DC) uses either external PSU provided or POE (power over ethernet).
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Connecting the HD NetVu Console

Step 1 - Connecting a Monitor

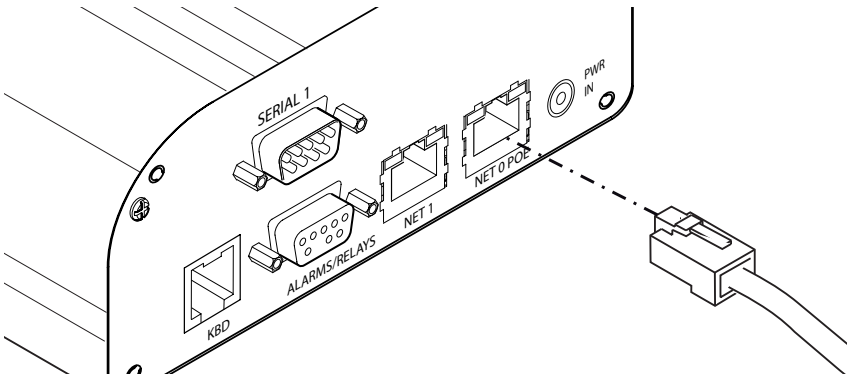


Connect a local monitor either to the BNC output labelled 'MON A' output or the HDMI output.

Note: Only one monitor connection is supported at any one time. The HDMI output will take precedence should monitors be connected to both monitor outputs.

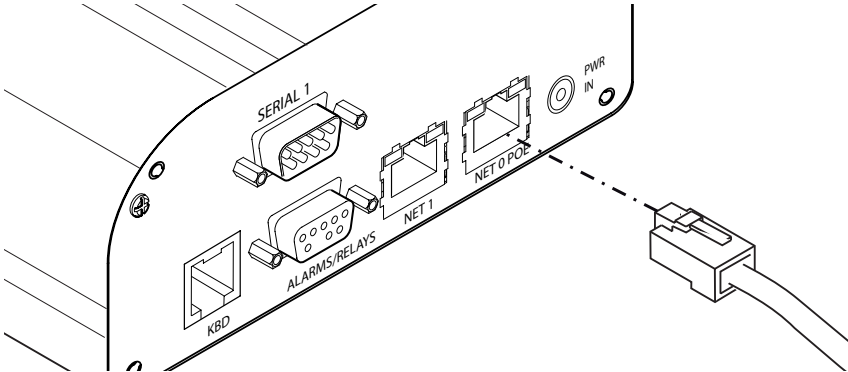
Note: This step is not required if the unit is configured as an Encoder, but it is recommended if the unit will be configured locally.

Step 2 - Connecting the Keyboard



The HD NetVu Console interfaces with the NetVu Console keyboard via the RJ12 keyboard socket. The keyboard can be used to control all servers linked to the NetVu Console.

Step 3 - Connecting to the Network



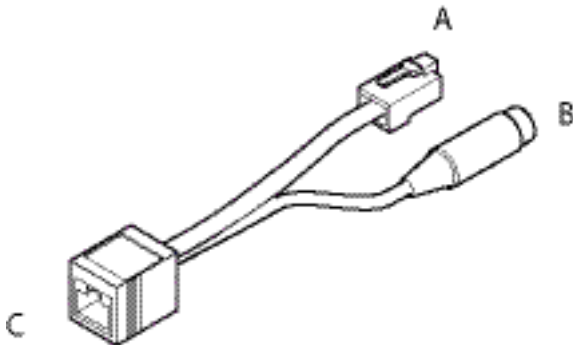
The HD NetVu Console supports two 10/100Mbps auto-detecting network port (operating on an internal switch). Use a CAT5 cable to connect the unit to the network.

The unit also supports Power over Ethernet (PoE). This allows the power for unit to be supplied via the ethernet port. If the PoE function is to be utilised, connect the CAT5 cable to the network connector labelled 'NET 0 POE'.

Note: The PoE function must be used in conjunction with a PoE Switch or the POE Injector (not supplied).

POE Injector (available separately)

The Dedicated Micros POE Injector is designed to enable the use of POE (Power over Ethernet) before a POE capable switch has been installed. It is installed alongside a suitable 48Vdc PSU that can supply 15W is required - DM/PSU/48V can be purchased separately from Dedicated Micros.



- A Connection to DVR/NVR/Switch
- B Connection to suitable 48Vdc 15W PSU - (DM/PSU/48V)
- C Ethernet cable connection to HD Console.

Operation on a Standard IP Network

Locating the Unit's IP address

The unit is configured using on-board web pages. This can be done remotely once the unit has been installed in its chosen location. The IP address of the unit is required to access these pages. When the unit is connected to a DHCP network for the first time, its IP address is unlikely to be known without referring to the settings of the network switch or router it is connected to.

DHCP works by assigning an IP address at initial connection to the network. It is possible however that this IP address can change without notification i.e. following power failure. DNS (Dynamic Name Service) allows the unit to be assigned a meaningful name which can be used to reference the unit instead of an IP address. This will remain constant in the event that the DHCP assigned IP address changes. If you do not wish to assign a DNS name, a fixed IP address can be assigned via the Configuration Menu pages: Network Settings->Network->IP Address.

When the unit is powered up, the IP address can be found by viewing on a local monitor and navigating to Configuration Menu pages: System Settings->Attributes->IP Address.

IMPORTANT: Refer to Appendix D for guidance on locating the unit's DHCP assigned IP address via a Serial Port connection to a PC / Laptop.

The easiest way to open the web pages remotely for the first time and identify the assigned IP address (via the Status page) is by connecting to the Unit using its DNS address.

Default DNS Address

The default DNS address for each unit is factory set to be its serial number. Therefore the address can be found from the serial label on the unit or via the packaging the unit came in. The DNS address can be typed directly into the address bar of a web browser on a desk/laptop connected to the same local network as the unit.



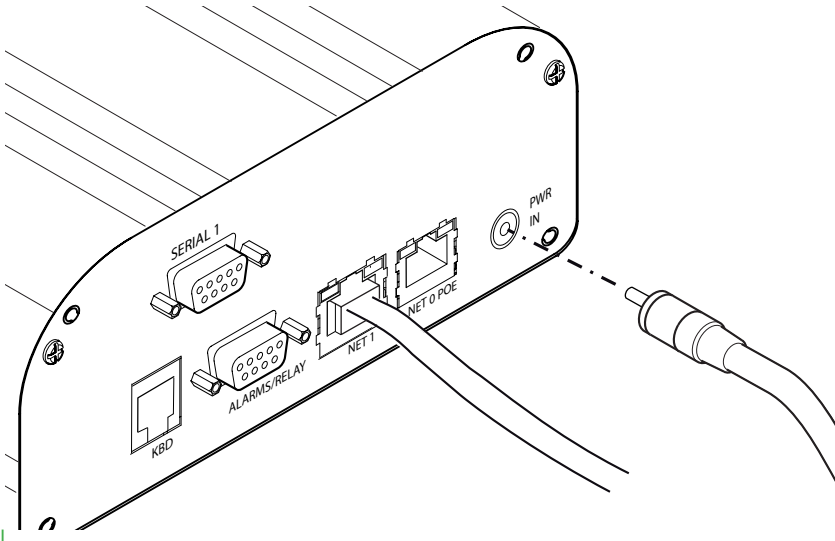
Note: The unit's DNS address can be changed subsequently to something more memorable or meaningful than its serial number. It can be edited via the System name option in the Attributes configuration page (System->Attributes).

Note: Following a change to the System name (DNS address), it will be necessary to reboot the unit. The unit can be rebooted via System -> Maintain-> Reset.

The unit supports zero-configuration networking (sometimes known as Bonjour), this enables automatic discovery of computers, devices, and services on IP networks. Zero-configuration uses industry standard IP protocols to allow devices to automatically discover each other without the need to enter IP addresses or configure DNS servers. By loading a suitable free add-on to your web browser such as Bonjour for Windows for Internet Explorer or BonjourFox for FireFox zero configuration devices such as this unit can easily be discovered and accessed.

The web pages loaded onto the unit can be navigated by connecting a monitor to MON A and the provided USB mouse into one of the USB ports.

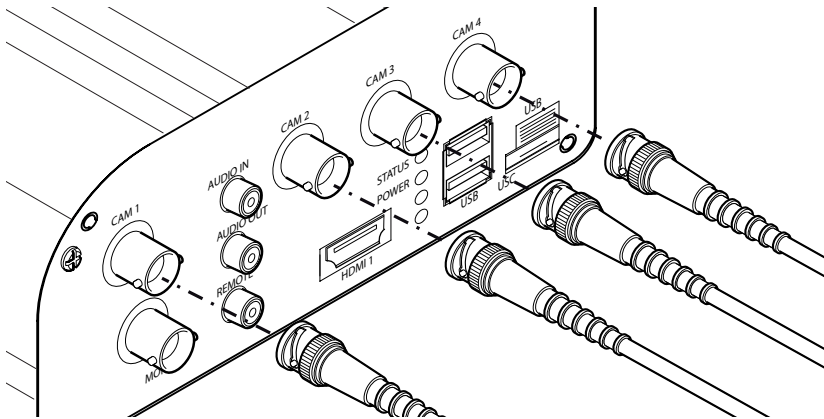
Step 4 - Connecting Power



The HD NetVu Console can use either the external PSU (supplied) or POE. If POE is not being utilised, connect the supplied external PSU to the unit and then to the wall socket or to a fused spur connection. Check local regulations before installation. Some countries require an Alarm/Security device be connected to a fused spur and not a wall outlet socket.

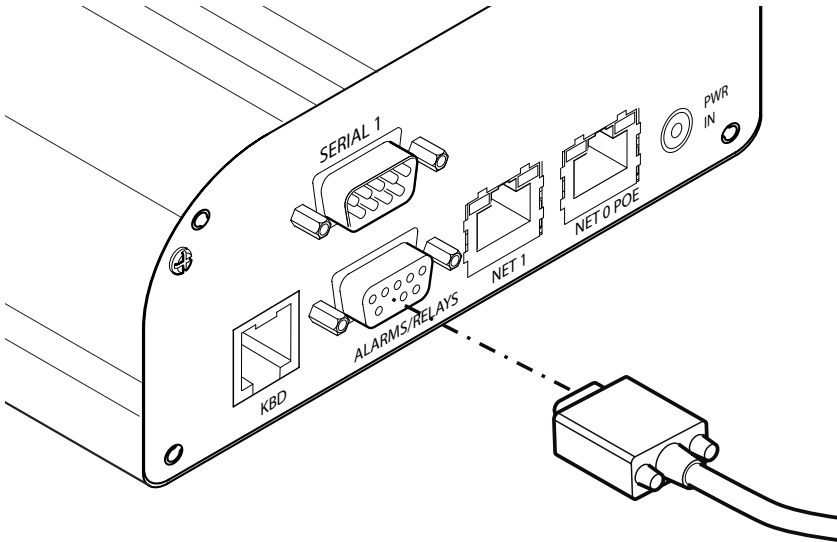
For guidance on utilising the Power over Ethernet (PoE) function, refer to *Connecting To The Network*.

Optional 1 - Connecting Analogue Video



The HD NetVu Console supports four connected analogue video inputs via the 75Ω BNC connectors labelled 'CAM1' to 'CAM4'.

Optional 2 - Alarms / Relays



Alarms

The unit supports 4 normally open/closed alarm inputs via the ALARMS/RELAY connector, or one Global keyswitch input with camera specific inputs configurable as entry/exit alarms.

Alarm Connections

Pins

5 - 8
4-9

Connections

Alarm Inputs 1-4
Ground

Relays

The unit support one 24V 200mA relays

Relay Connections

Pins

1

Connections

Relay 1 signal

Optional 3 - Connecting USB Memory

The unit can utilise USB mounted memory to store video data, either in the form of memory stick or larger USB hard drives. The unit can also utilise AoE network storage.

The SD card (if installed) can also be utilised for limited storage.










To utilise USB storage, connect a suitable USB hard drive to one of the sockets on the front of the unit.













Instructions on how to prepare connected USB drives are provided, refer to 'Video Storage'.













Keyboard

The NetVu Console Keyboard enables a high degree of control over connected cameras.



Button	Description	Function
	Live/Play	Puts the unit into Live mode.
	Display	Button functionality for future development.
	High/Low	Button functionality for future development.
	R/G/Y/B/P	Activates the relevant softkey function, refer to 'Using the NetVu Console'.
	Help	Button functionality for future development.
	Audio	Button functionality for future development.
	Panic	Button functionality for future development.
	Event	Display the controls and selections for Event from the current system, refer to 'Using the NetVu Console'.
	Goto	Display the controls and selections for the Video Timeline function.

	Copy	Button functionality for future development.
	Pause	In Live mode – Freeze the current display window. In play mode – Pause video in playback.
	Rewind	When in Live mode – put unit into reverse playback from current time. When in Play mode – start rewinding from the playback time. When in Rewind mode – increase speed of rewind. When in Pause – Step back one frame.
	Fast Forward	When in Play or Rewind mode – start fast forwarding from the playback time. When in Fast Forward mode – increase speed of FF. When in Pause – Step forward one frame.
	Play	When in Live mode – put unit into playback at the last playback time stored. If no playback time then go back 10 seconds. When in FF / REW / PAUSE – Initiate play at standard speed from the elapsed time.
	Numeric keypad	Allows the entry of Camera, System and Preset numbers.
	Preset	Sends the current camera to a preset position (if the camera has presets stored). Press this button and then a numeric key to select the required preset. The current camera is the one shown top left in a quad or multiscreen view. This will self cancel if no number keys are pressed.
	System	Select a System using this button to open the system select function and press a numeric key, <i>refer to 'Using the NetVu Console'</i> . This will self cancel if no number keys are pressed.
	Monitor	Button functionality for future development.
	Camera	Revert numeric entry mode to selecting cameras.
	Wash / Wipe	Control of telemetry functions on the current base camera.
	Focus Far / Focus Near	Control of telemetry functions.

		Iris Open / Iris Close	Control of telemetry functions.
		Lamps	Control of telemetry functions.
		Auto pan	Control of telemetry functions.
		Patrol	Control of telemetry functions.
		Direction arrow up	Menu and on screen navigation button.
		Direction arrow down	Menu and on screen navigation button.
		Direction arrow left	Menu and on screen navigation button.
		Direction arrow right	Menu and on screen navigation button.
		OK	Menu / On screen action confirmation or enter.
		Menu	Enter menus on Console or Dome if telemetry is active.
		Exit	Exit menus or escape.

Accessing & Configuring the Unit

The unit can be configured either on the local monitor or over the network using a PC with Internet Explorer or similar browser. Both have near identical menu interfaces.

Accessing the menus on a local monitor

The Viewer and Configuration menus can be displayed on a local monitor (connected to BNC Connector 'Mon' or the 'HDMI' port on the unit).

The viewer menus will display the images from the video source connected to VID 1 on initial connection. To view the Configuration menus, use a connected USB mouse to navigate the Viewer menus until the Menu (Blue) option is displayed. Select the Menu (Blue) option to display the 'Configuration' menus. The Configuration menus are now displayed. Navigate the menu tree via the USB mouse (refer to 'Navigating The Configuration Menus' for further guidance).

Accessing the menus on a PC web browser

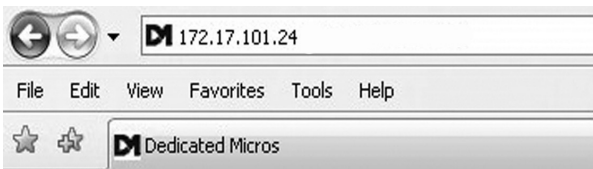
For guidance on connecting the unit to the network, refer to 'Installing the HD NetVu Console->Step 4 Connecting To The Network'

The Configuration menus can be accessed and navigated via your desk/laptop, for further guidance, refer to 'Navigating The Menus'.

Accessing the Configuration Webpages

The unit can be configured using the webpages. To access these:

1. Launch Internet Explorer (or similar web browser package).
2. Type the URL for the unit (IP or DNS address).



3. The Opening menu page will be displayed.

Main Menu

The main menu will be displayed when first accessing the unit remotely. This menu allows access to the Configuration and Viewer menus.



Select the Configuration menu tab to access the Configuration menus, for further guidance refer to 'Navigating the Configuration Menus'.

Select the Event Search tab to access the unit's Event Search function, for further guidance refer to 'Event Search'.

Note: The 'Event Search' option will only be displayed if 'Enable Event Search' is selected in the 'Features' menu: System Settings->Features.

Select the Viewer menu tab to access the unit's Viewer function, refer to 'Operating The Viewer' for information on the numerous Viewer features.

Note: The 'Viewer' option will only be displayed when Operational Mode is set to 'Console' or 'DVR' in the Features->System menu (System Settings->Features->System)

IMPORTANT: By default, no Usernames and Passwords are required to access any of the various menus. Usernames and Passwords can however be added to regulate access to the Configuration and Viewer menus, refer to the 'Display Settings->User Accounts' menu for information on establishing Usernames and Passwords.

Navigating The Menus

The menu tree provides access to the configuration menus.

The configuration pages are navigated using the menu tree (displayed on the left of each page). Selecting one of the menu options will display the relevant page. Associated sub-menus will then be available.

HD NetVu Console DEDICATED MICROS

System Page Save

Warning: This system has no user accounts configured. Ignore Accounts

Product Descriptor: DV-IP NV1 Video Standard: PAL

Serial Number: MT102704P019

PCB Serial Number: MP102805N002

Product Code: NV1

System Name: NV1-con1

MAC Address: 10/100 Base T VLAN1
00-D0-D9-08-30-D1

IP Address: 172.17.36.61 0.0.0.0

Sub Net: 255.255.252.0 0.0.0.0

Gateway: 172.17.36.254

Software

NetVu Software Time/Date Accounts Network Refresh

Relevant menus can also be accessed directly from other menu screens via the coloured softkey options shown at the base of each menu. The options available will depend on the menu being viewed. Select a softkey option by pressing either the corresponding button on the IR Remote Control (if viewing the menus locally), or by selecting the relevant option via the PC mouse (if viewing the webpages).

Note: Any changes made via the webpages are automatically saved when the page is closed. To 'manually' save changes, select the Save option.

Entering Alpha-Numeric Data via a Local Monitor

Numeric or text data is entered using the on-screen Virtual Keyboard (Arrow Key Editor).

To display the Virtual Keyboard, highlight the relevant text input box and double press the left button of the USB mouse. The Virtual Keyboard is displayed.

Use the cursor to select a character. Select 'Submit' to enter details, select 'Cancel' to exit without entering any text.

Note: *Any USB Keyboard (not supplied) can be connected via one of the USB ports on the unit. The USB Keyboard can then be used to enter alpha-numeric data via the local menus.*

Using a USB Mouse or the Webpages

Navigate the menus by clicking the tabs displayed on the left of the menu headings (on the menu tree). The first option is highlighted with a red tab. Select a main menu heading to open a drop down list of further sub-options.

Highlight an editable field by clicking on it directly.

If viewing pages locally, enter alpha numeric data via the Arrow Key Editor (see above). If viewing remotely, enter via the PC keyboard. If available, click on the drop down menus to select settings.

Note: *A selected item in the drop down list will appear highlighted.*

Navigating away from a page (clicking on a different option on the menu tree) will automatically save any changed settings. To undo changes made to any menu, select the Refresh (Purple) option.

Connecting the NetVu Console Keyboard

This is connected via the KBD connector on the rear of the unit.

System Settings

The menus under the System Settings heading allow the unit's core settings to be viewed, changed and the system software upgraded.

IMPORTANT: Not all menus will be available in both 'Console' and 'Encoder' mode. The mode of operation can be selected in the Features->System menu (System Settings ->Features->System).

The Attributes option displays details about the unit including the IP address, unit serial number, MAC address and software version.

The Status pages displays information about the unit's operating condition, shows how long the unit has been operating and the reason for the last reset. It also shows camera status and displays any failed cameras. The About / Logs menus allow access to numerous system information pages and detail various system logs.

The Language page allows the system language to be set. The language can also be changed for the current session only.

The Time and Date page allows the unit time and date settings to be adjusted, including setting the time-zone.

The Serial Ports page allows each of the two serial ports to be individually configured for one of a range of operations, including, debug, PPP and telemetry.

The Features page allows control of the different features that are available within the software including switching modes, E-mail reporting, webcam support and control of the display resolution.

The Maintain page allows the current configuration to be saved, and for previously saved settings to be loaded. It also enables easy upgrade of the system software.

The PowerScript Mgmt page allows installed PowerScripts to be activated/deactivated on start-up.

The USB Config. page allows one of the units USB sockets to be used as an external storage output. A high capacity USB device could then be connected and used to store recorded video images.

Attributes

This menu shows the general information about the unit including the version of software installed, the unit's serial number and the allocated DHCP IP address.

System Page

Save

Warning: This system has no user accounts configured.

Ignore

Accounts

Product Descriptor

NV Console

Video Standard

PAL

Serial Number

MT102704P019

PCB Serial Number

MP102805N002

Product Code

NV1

System Name

NV-con1

MAC Address

10/100 Base T

VLAN1

00-D0-D9-08-30-D1

IP Address

172.17.36.61

0.0.0.0

Sub Net

255.255.252.0

0.0.0.0

Gateway

172.17.36.254

Software

Software

Time/Date

Accounts

Network

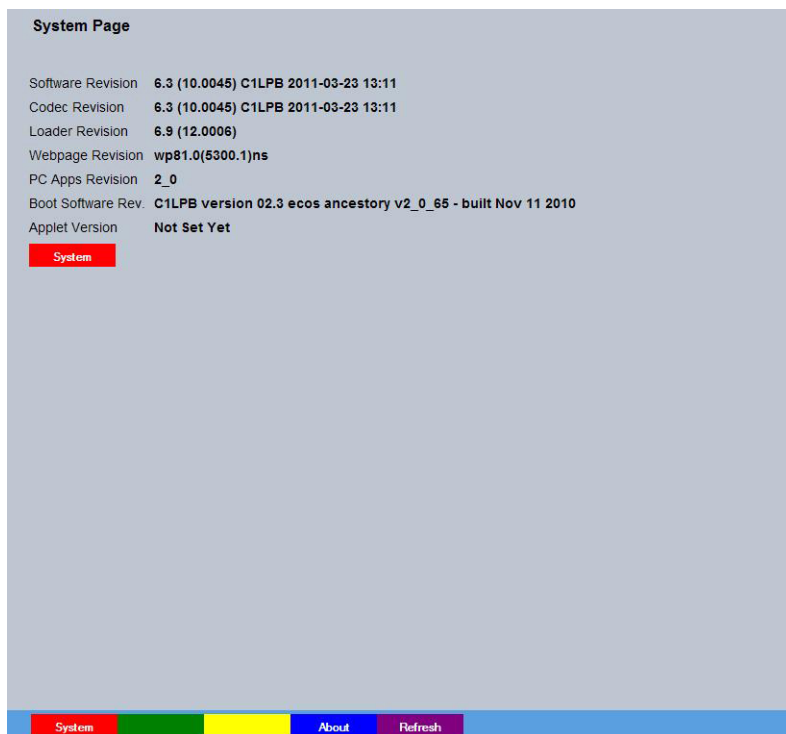
Refresh

Product Descriptor	Details the product model.
Serial Number	Identifies the serial number of the specific unit.
PCB Serial Number	Displays the unit PCB (Printed Circuit Board) serial number.
Product Code	Displays a code identifying the unit's specification.
Earliest Recording	Displays the date/time of the earliest recording held on the unit.
System Name	This field can be edited to allocate a name to the unit. This is displayed when the unit is accessed via NetVu ObserVer and is sent when transmitting information to a Remote Video Response Centres (RVRC).
Video Standard	Displays the video standard adopted by the unit i.e. PAL, NTSC
Number of Cameras	Shows the number of camera channels on the unit.
Global PPS	Details the Global PPS (Pictures Per Second) recording rate for all cameras.
Video Storage Gbytes	Highlights the available video storage capacity in Gigabytes.
MAC Address	This is the MAC address assigned to the unit.
IP Address	This is the IP address allocated to the unit.
Sub Net	This is the subnet of the network where the unit is located.
Gateway	This is the IP address of the default gateway (router) assigned by the DHCP server.

Note: The above address information is split into two columns. Each column relates to either Network port 1 (Net 1) or Network port 2 (Net 2).

Software (Red)	Select this option to display installed software information (see below).
Time/Date (Green)	Select to open the System->Time and Date page.
Accounts (Yellow)	Select to open the Display->User Accounts page.
Network (Blue)	Select to open the Network->Network page.
Refresh (Purple)	Refreshes the information on the current page.

Software Menu



Software Revision	This identifies the version of software the unit is running.
Codec Revision	This identifies the codec version the unit is running.
Loader Revision	This identifies the codec version the unit is running.
Webpage Revision	This identifies the webpage version the unit is running.
Framestore Revision	This identifies the Framestore Revision the unit is running.
PC Apps Revision	This identifies the revision archive of the Viewer and associated PC Apps software.
Boot Software Rev.	Displays the infrastructure componentry software revision.
Applet Version	This identifies the applet version the unit is running.
System (Red)	Select this option to return to the System menu.
About (Blue)	Select to open the Status->About page.
Refresh (Purple)	Refreshes the information on the current page.

Unit Status

This menu details information regarding the status of the unit, notably the total time the unit has been operating and the time since its last reset. Status log information can also be exported via the 'Export Logs' option to a USB device (for guidance on the Export Log function refer to 'System Settings->Maintain').

Unit Status ⓘ

Time since last reset

45 Hours

Total running time

2 Days

Reset code

100

Restart reason

Controlled user RESET from Telnet or the webpages

Rem Codec

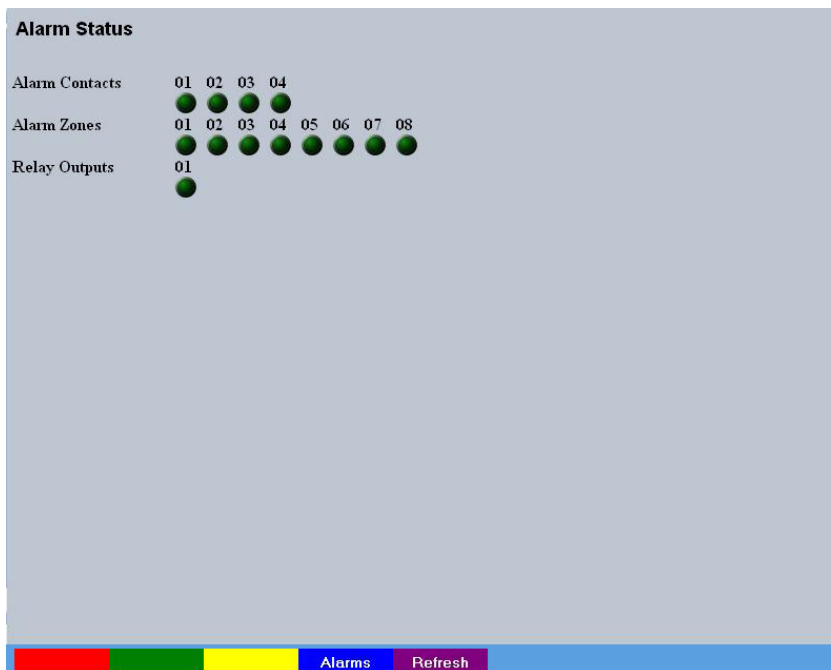
Refresh

Time since last reset	Details the time since the unit was last reset.
Total running time	Details the total time the unit has been operational.
Reset code	The last reset code used is displayed.
Restart reason	The reason for the last restart is displayed i.e. Controlled User Reset.
Codec	One codecs is installed within the unit.
Cameras	Cameras assigned to each codec are displayed.
Connected	Those camera channels with cameras connected will be highlighted light green. Those not in use will appear dark green.
Recording	Those camera channels that are currently recording are highlighted light green. Those not recording will appear dark green.
Cam Status	Those camera channels where the connection is deemed to be functioning correctly will be highlighted light green. Those deemed to have failed will appear red. Camera channels with no connected camera will appear dark green.
Alarm Status (Yellow)	Select to open to the Status->Alarm page.
Refresh (Purple)	Refreshes the information on the current page.

Alarm Status

Note: Greyed menu option will be available if the mode is changed from Console to DVR or Encoder, they are not available in the Console configuration. They are included for reference only.

This menu details information regarding the status of the unit's alarm contacts, alarm zones and relay outputs.



Alarm Contacts/Zones/Relay Outputs Alarm Contacts, Alarm Zones and Relay Outputs that are in an 'active' state are shown light green. 'In-active' ones appear dark green (not illuminated).

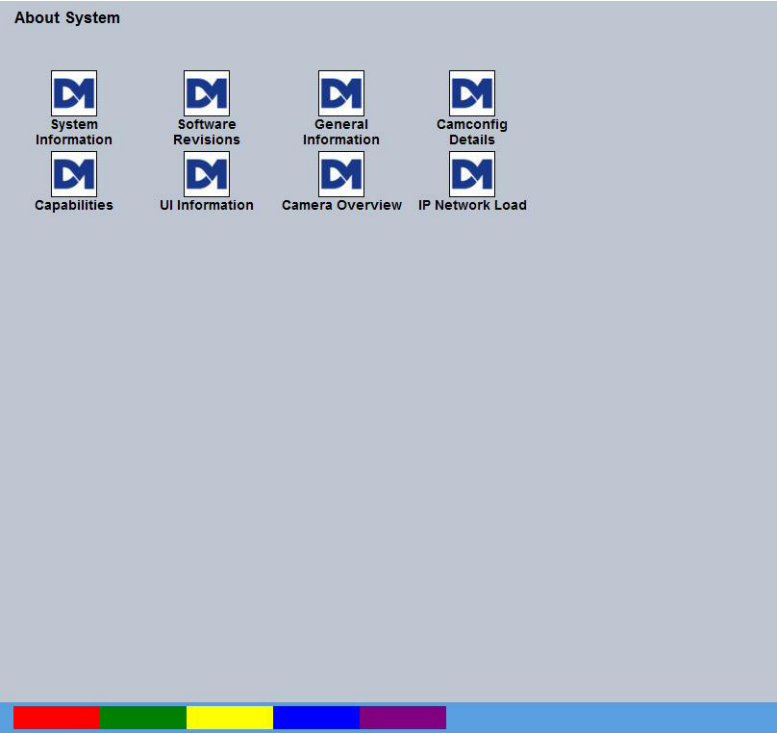
Alarms (Blue)
Refresh (Purple)

Select to open to the Alarm->Inputs page
Refreshes the information on the current page.

About

These menu allows access to numerous system information pages and detail various system logs. Select the an icon to view the relevant pages.

Note: Refer to Appendix C for further information on the 'About' menu pages.

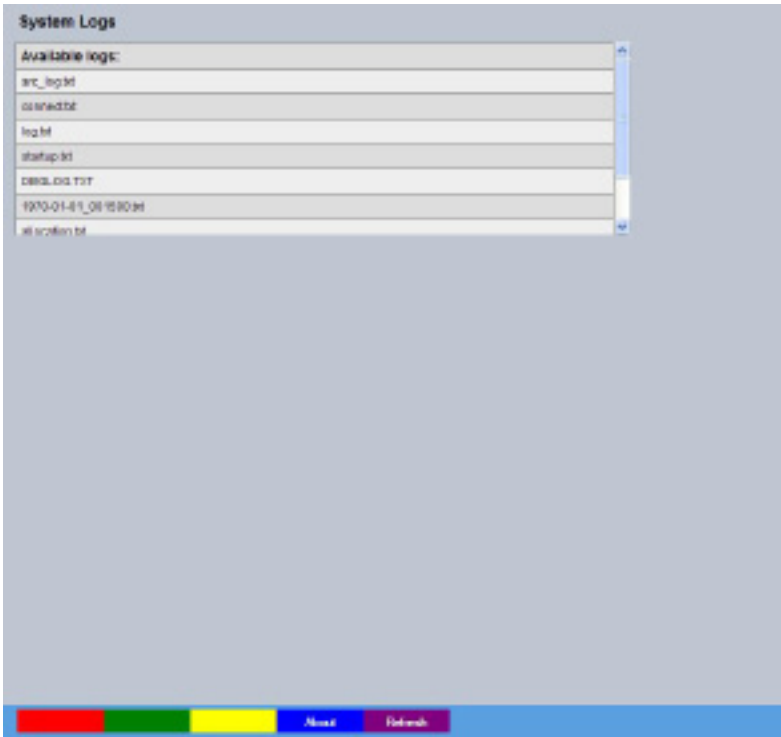


System Information	Select to open the System menu. System information will be displayed, refer to System Settings->System for guidance on the information available.
Software Reference	Select to open the Software Reference menu. Software information will be displayed, refer to System Settings->System->Software Menu for guidance on the information available.
General Information	Select to open the General Information menu. This menu details the current recording profile in operation i.e. Set, Unset or Override. Currently enabled features are also shown. Features are enabled via the Features menu (System Settings->Features). Installed drive data is also shown.
Record Details	Select to open the Record Details menu. For each camera, the camera type and class is shown, plus whether it is currently recording. The recording profile for each camera is also detailed. Record settings can be configured for each camera via the Record Profile menu (Record Settings->Profile Record).

Camconfig Details	Select to open the Camera Attributes menu. This menu provides detailed information on the type of camera i.e. analog or IP and for IP cameras, the supported resolution and capabilities.
Capabilities	Select to open the Capabilities menu. This menu details the function capabilities of your unit.
UI Information	Select to open the UI (User Interface) menu. This menu details basic information regarding your unit. The java applet path is also shown. The default location will always be the applet installed on the unit. If accessing multiple units via a remote connection, all can be assigned the same Viewer applet. This will lessen the load time required when accessing different DVRs/Servers. For further guidance refer to the Viewer Defaults menu (Display Settings->Viewer Defaults).
Profile Record Tables	Select to open the Profile Record Tables menu. This menu thoroughly details the preconfigured recording settings.
Camera Overview	Select to open the Camera Overview menu. This menu details the general settings assigned to each of the local camera channels.
IP Network Load	Select to open the IP Network Load menu. This page illustrates the network traffic utilised by the unit. The page refreshes every second.

Logs

The log files stored in the camera can be accessed from this page. Selected logs are displayed on the page below.



About (Blue)
Refresh (Purple)

Opens the *About* page
Refreshes the current page

Network Security Logs

The log files stored in the camera can be accessed from this page. Selected logs are displayed on the page below.

Network Security Logs

Save

Start Date

24/02/11

Start Time

02 : 17 PM

End Date

24/02/11

End Time

03 : 17 PM

Load Security Logs

Number Of Records

10

No Network Security Logs found for the required time.

Please enter different Start, End time and the Number Of Records to display.

Refresh

Start Date	Enter a start date to filter the security log entries
Start Time	Enter a start time to filter the security log entries
End Date	Enter an end date to filter the security log entries
End Time	Enter an end time date to filter the security log entries
Load Security logs	Displays security events that were logged within the start and end parameters
Refresh (Purple)	Refreshes the current page

Language

This menu allows the system language to be set. Changing the System Language will effect all menu pages. If required, the language can also be changed for the current session only.

Language

Save

Setting the system wide language will require a reset of the unit to apply

System Language

English

Reset

Choose your language for this session, it will not affect the system wide language setting

Session Language

English

Choose

Reset

Refresh

- | | |
|------------------|--|
| System Language | Select to change the system language setting. |
| Reset (Red) | Select to reset the unit. |
| Note: | <i>The unit MUST be reset to implement system language changes.</i> |
| Session Language | Select to change the language settings for the current session only. |
| Choose | Select to immediately activate session language changes. |
| Reset(Red) | Resets the unit |
| Refresh (Purple) | Refreshes the current page. |

Time and Date

This menu allows the time and date to be set on the unit. Required timezone information can also be established and the unit time synchronised to that of the PC being used to view the webpages.

Note: If power is lost to the unit, time/date settings will be lost.

Time and Date

Save

System Time

Mon, 18 Oct 2010 2:38:33 PM (+0)

Current time zone

GMT

Time zone

No Daylight Savings

Time zone changes will only take effect after a system reset.

Date format

ddmmyy

Reset

Time format

12hr

SNTP Server

169.254.44.16

You must click the green button to set the time and date.

Set Time

02 : 38 PM

Set Time

Set Date

18/10/10

PC Time

Mon Oct 18 2010 03:38:16 PM (+60)

Sync Time

Reset

Set Time

System

Sync Time

Refresh

System Time	The current system time and date is displayed.
Current Time Zone	Displays the currently selected time zone settings.
Time Zone	Select the relevant timezone offset from the accompanying drop down menu.
Reset (Red)	When a change has been made to the unit's Time Zone setting, it is necessary to reset the unit before the change will take effect.
Date Format	As default, the date is entered dd/mm/yy. It can also be displayed as mm/dd/yy or yy/mm/dd.
Time Format	As default, the time displayed is in 12 hour format. This can be changed to 24 hour if required.
SNTP Server	A Simple Network Time Protocol (SNTP) server allows external devices to connect and set their current date and time settings to that of the SNTP. If required, enter the SNTP server IP address here.
Note: Dedicated Micros recommend the use of a SNTP Server.	
Set Time	Enter a current time for the unit.
Set Date	Enter a current date for the unit.
Set Time (Green)	When current time/date as been entered, select this button to implement changes.

PC Time	Displays the system time of the PC currently being used to view the webpages.
Sync Time (Blue)	Use this button to synchronise the time of the unit to that of the PC being used to view the webpages.
Reset (Red)	Select to cycle the power to the unit.
Set Time (Green)	When current time/date as been entered, select this button to implement changes.
System (Yellow)	Select to open the System->Attributes page.
Sync Time (Blue)	Use this button to synchronise the time of the unit to that of the PC being used to view the webpages.
Refresh (Purple)	Refreshes the information on the current page.

Serial Ports

This menu allows configuration of the unit's Serial ports. For installation information, refer to the optional stages in 'Installing the Unit'.

Note: The Serial 1 port and the keyboard connector utilise the same 485 bus which can provide either keyboard support or telemetry. NetVu Console defaults to keyboard operation.

Important: Configuring the Serial Port for Telemetry will disable the NetVu Console keyboard.

Serial Configuration

Save

If changing the port to debug the unit will require a reset

Serial Port	1
Port Config	None
Interface Type	Serial RS232
Baud	115200
Data	8
Parity	None
Stop Bits	1
Flow Control	None
Protocol	None

Reset

Maintain

Camera

Refresh

Serial Port

These is one serial port available for configuration.

Port Config

The serial port can be configured to specific uses.

Select from:

None	Switches port off
Debug	Sets port for serial communications
PPP	Sets port for Point to Point Protocol
Telem	Sets port for Telemetry purposes
Comm	Sets port for Comms purposes
EPOS	Sets the serial port for connection to an EPOS (Electronic Point Of Sale) device

Interface Type

Choose the type of serial interface being used. Select from RS232, RS485 or RS422.

Note: RS485 will only be available when 'Enable RS485 Telemetry' is selected in the Features->System menu.

Important: Configuring the Serial Port for Telemetry will disable the NetVu Console keyboard.

Baud/Parity/Data/Stop/Flow Control

These options allow the Serial port communication settings to be configured.

Note: When a telemetry protocol is selected, these settings will default to pre-determined values and should not normally be altered.

Protocol This is a drop down list of serial telemetry protocols supported by the unit.

Note: Refer to 'Appendix G' for a full list of supported telemetry protocols.

IMPORTANT: Before the serial port is set to telemetry, 'Enable 485 telemetry' must be set to 'True' via the Features menu (System Settings->Features). The unit **MUST** be reset to reassign the RS485 BUS to the serial port because it is assigned to the 485 Bus controller by default.

Important: Configuring the Serial Port for Telemetry will disable the NetVu Console keyboard.

Reset (Red) Select to cycle the power to the unit.
Maintain (Green) Select to open the System->Maintain page
Camera (Blue) Select to open the Camera Configuration page (see below).
Refresh (Purple) Refreshes the information on the current page.

Camera Configuration

This page allows configuration of some features on all cameras available to the unit.

Camera Configuration

Save

Update local system configuration on save ☒

Camera Nuisance Count

	Title	Mode		Fail Rep
1	Camera 25	↓ Colour	↓	<input checked="" type="checkbox"/> ↓
2	Camera 26	↓ Colour	↓	<input checked="" type="checkbox"/> ↓
3	Camera 27	↓ Colour	↓	<input checked="" type="checkbox"/> ↓
4	Camera 28	↓ Colour	↓	<input checked="" type="checkbox"/> ↓

Cam Setup

Serial

Refresh

Update local sys config on save Select to update and enforce any changes made here in the local system display.

Camera Nuisance Count This is a repetitive detector value. When a camera failure alarm is received on the unit, it will store the alarm time and monitor the number of times the same alarm is triggered within an hour period. If the detector is triggered the number of times entered here, the unit will set the camera to 'No Connection'. To disable this feature, leave the setting as '0'.

Title Titles assigned to each camera are displayed.

Mode The settings will default to 'Colour'. If Monochrome cameras are used, select 'Mono'. Selecting 'Mono' will remove colour

Fail Rep	patterning. If a particular channel is not in use or the camera has failed, select 'Not Connected'. Select this option to activate a Failure report in the event of camera connection failure (video loss).
Cam Setup (Red)	Select to open the Camera->Setup page
Serial (Blue)	Select to open the System->Serial page
Refresh (Purple)	Refreshes the information on the current page.

Audio

The Audio menu allows settings for the bi-directional audio channel to be edited. Audio can be recorded from line input. Challenge audio i.e. originating from an Operator using NetVu ObserVer at a Remote Video Receiving Centre (RVRC) can be recorded.

Audio

Save

Some settings on this page will require a reset

Input Mode

Audio 1

None

Audio 2

None

Audio Recording

Disabled

Record Audio Challenge

Record Gain

1

Playback Volume

1

Record AGC

Record uncompressed

Mic Bias Enabled

Mic Boost

0

Reset

Refresh

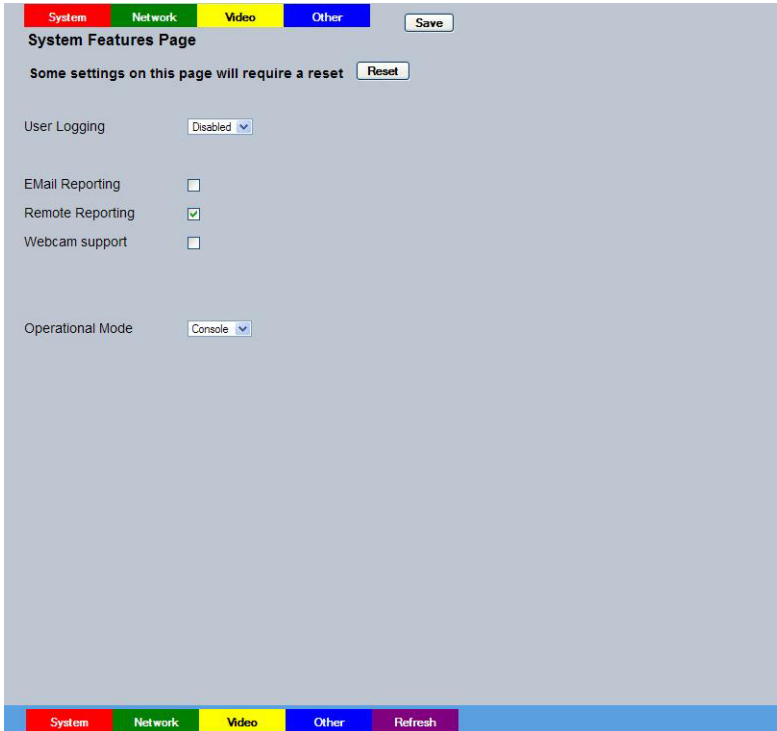
Audio 1/2	Use the drop down box to assign an audio function to each input, 'Local' is Audio recorded from local inputs, 'Challenge' audio originates from an Operator using NetVu ObserVer at a Remote Video Receiving Centre (RVRC).
Audio Recording	Select 'Enable' to activate Audio recording. Note that this is a global action which when Enabled, will result in all audio received by the unit being recorded to the HDD.
Record Audio Challenge	Select this option to record an audio challenge received via an IP connection i.e. originating from a remote client.
Record Gain	This option allows the Record Gain level to be set. This is the base setting from which the AGC (Automatic Gain Control) will operate. Select from 1 to 15. The default and recommended setting is 15.
Playback Volume	Select a volume setting between 1 to 64 for audio playback.
Record AGC	Select this option to activate the AGC function. AGC helps produce a better quality recording by removing background noise/distortion.
Record uncompressed	Select this option to record audio in an uncompressed format.
Note:	Recording in uncompressed format will significantly increase the disk space used.
Mic Bias Enabled	Enables the Audio input to receive MIC input.
Mic Boost	Increases gain on Audio channel to boost MIC signal.
Reset (Red)	Select to cycle the power to the unit.
Refresh (Purple)	Refreshes the information on the current page.

Features

These menus enable the activation of numerous system features. Features are grouped within four sub-menus: System, Network, Video and Other. Changing the Operational Mode will remove any configuration information and apply the default factory settings for the selected mode.

Note: Greyed menu option will be available if the mode is changed from Console to DVR or Encoder, they are not available in the Console configuration. They are included for reference only.

System



User Logging

Enable this option to activate User Logging. For further information regarding the User Logging function, refer to 'Appendix B'.

Text in Images

Select this option to activate the Text in Images function. For more information refer to 'Text-Text In Image'.

Note: When de-selected here, the 'Text in Image' menu will no longer be displayed in the menu tree.

Camera Masking

Select this option to activate the Camera Masking function, refer to 'Alarm->Camera Masking' for more information.

Note: When de-selected here, the 'Camera Masking' menu will no longer be displayed in the menu tree.

E-mail Reporting

Select this option to activate the E-mail Reporting function, refer to 'Network->E-mail' for more information.

Note: When de-selected here, the 'E-mail Reporting' menu will no longer be displayed in the menu tree.

Remote Reporting Select this option to activate the Remote Reporting function, refer to 'Network->Remote Reporting' for more information.

Keyboard Enable (485 bus) Select to enable a connected RS485 Keyboard unit.

Automatic FTP Download Select this option to enable automatic FTP downloads to upgrade the unit and/or the webpages, refer to 'Network Settings-FTP Download' for more information.

Note: When de-selected here, the 'Automatic FTP Download' menu will no longer be displayed in the menu tree.

Webcam Support Select this option to activate the Webcam function. This allows the unit to emulate a webcam and send image from one video feed in webcam format, refer to 'Network Settings-Web Cam' for more information.

Note: When de-selected here, the 'Web Cam' menu will no longer be displayed in the menu tree.

Enable RS485 Telemetry Select 'True' to enable telemetry.

Operational Mode The unit can be set to operate in either 'Encoder', 'DVR' or 'Console' mode. The pages available within the configuration menu will change depending on the mode selected. The Viewer menus WILL NOT be available when 'Encoder' is selected.

Changing the Operational Mode will remove any configuration information and apply the default factory settings for the selected mode.

System (Red) Select to open the System->Features->System page

Network (Green) Select to open the System->Features->Network page

Video (Yellow) Select to open the System->Features->Video page

Other (Blue) Select to open the System->Features->Other page

Refresh (Purple) Refreshes the information on the current page.

Network

Note: Greyed menu option will be available if the mode is changed from Console to DVR or Encoder, they are not available in the Console configuration. They are included for reference only.

Secondary Web Port	If the default port setting for web serving has already been allocated, it is possible to configure a second port number i.e. the secondary web port can be set to 8000 if the default web port (80) is blocked by the network or firewall.
Use Record Profiles For Tx	Select this option when units required Video Transmission profile (rate/quality/resolution) is identical to that being recorded.
Max Client Connections	This setting limits the number of client connections to the server. The default value is 256 but could be increased if there is heavy network traffic.
ARP Cache Size	This setting limits the number of cache entries available in the ARP table. The default setting of 256 is adequate for most instances
TCP Reassembly Queue Limit	This setting limits the maximum number of TCP segments allowed in the reassembly queue, to protect against a common DoS attack.
System (Red)	Select to open the System->Features->System page
Network (Green)	Select to open the System->Features->Network page
Video (Yellow)	Select to open the System->Features->Video page
Other (Blue)	Select to open the System->Features->Other page
Refresh (Purple)	Refreshes the information on the current page.

Video

SystemNetworkVideoOtherSave

System Features Video Page

Some settings on this page will require a resetReset

Detected Video StandardPAL

Video Resolution (h x v)640 x 512

Deinterlace FilterEnabled

Disable Transcoding☐

Segment Aspect RatioStretch

Detected Video Standard	The unit automatically detects the video standard being used i.e. PAL/NTSC.
Video Resolution (h x v)	Edit the resolution settings. This will be the default display resolution when viewing the unit's menu pages.
Deinterlace Filter	When Enabled, this option will improve the appearance of moving objects by applying a deinterlace mask that minimises the comb effect that can be visible when recording high motion scenes in 4CIF mode. It is recommended that this option be enabled when recording in 4CIF mode.
Disable Transcoding	Select to disable the unit's transcoding capabilities. In normal circumstances this should always remain enabled, however it can be useful to disable the feature when conducting maintenance.
Segment Aspect Ratio	<p>This setting control how a 4:3 image is displayed in a multi-screen or wide screen format on the local viewer. The available display segment changes depending on the number of multi screen images selected for display.</p> <p>Stretch forces the image to fill the available display segment. This may result in some distortion of the display image.</p> <p>Zoom Fit forces the frame to fill the available segment completely and proportionally. Consequently some of the image at the top and bottom of the frame may be cropped.</p> <p>Frame Fit forces the frame to fill the available segment proportionally, resulting in black bars left and right on some multi display choices.</p>

Note: There is no cropping or distortion on the recorded image, these settings are for display only.

System (Yellow)
 Network (Green)
 Video (Yellow)
 Other (Blue)
 Refresh (Purple)

Select to open the System->Features->System page
 Select to open the System->Features->Network page
 Select to open the System->Features->Video page
 Select to open the System->Features->Other page
 Refreshes the information on the current page.

Other

Note: Greyed menu option will be available if the mode is changed from Console to DVR or Encoder, they are not available in the Console configuration. They are included for reference only.



Auto Update Web Variables	Configures the unit to update all system variables required for an automatic upgrade without requiring confirmation. Do not check this box if you run a customised applet.
Enable Event Search	Select to enable the Event Search option. When enabled, the option will appear within the Configuration Menu tree, for further details refer to 'Navigating the Configuration Menus->Event Search'.
Enable RVRC page	Select this option to activate the RVRC Remote Set/Unset/Override function, for more information refer to 'Record Settings-RVRC'.
Note: When de-selected here, the 'RVRC' menu will no longer be displayed in the menu tree.	
System (Yellow)	Select to open the System->Features->System page
Network (Green)	Select to open the System->Features->Network page
Video (Yellow)	Select to open the System->Features->Video page
Other (Blue)	Select to open the System->Features->Other page
Refresh (Purple)	Refreshes the information on the current page.

Maintain

This menu allows the unit to be reset and a software upgrade to be performed via an inserted CD-R/DVD-R or a connected USB device. Current unit settings can also be saved for future use and previously saved settings restored.

Unit Configuration Maintenance and Software Upgrade

Configuration: Default Save Restore Help

select: Config Files

to/from: USB

Status:

Export Logs: Export Logs to: USB

Server: Reset

To upgrade: insert a usb memory stick with the appropriate upgrade files and reset the unit

Reset Default Export Logs Restore Save

Configuration

Default (Green)

Select to return the unit to its factory default settings.

Note: Selecting the Default button will cause the system to reboot.

Save (Purple)

Select to save current unit settings to the selected media.

Restore (Blue)

Select to restore previously saved settings from the selected media.

Note: Selecting the Restore button will cause the system to reboot.

To/From

Set as 'USB'.

Export Logs

Export Logs (Yellow)

Select to export all Logged data to a connected external device.

To

Set as 'USB'..

Server

Reset (Red)

Select to cycle the power to the unit.

IMPORTANT: To upgrade the unit, insert a media device containing relevant software upgrades and select 'Reset'.

Note: For the latest software upgrades, please refer to the Dedicated Micros website:
www.dedicatedmicros.com

Note: Selecting the Default button will cause the system to reboot.

Save (Purple)	Select to save current unit settings to the selected media.
Restore (Blue)	Select to restore previously saved settings from the selected media.

Note: Selecting the Restore button will cause the system to reboot.

To/From	Set as 'USB'.
---------	---------------

Export Logs

To	Set as 'USB'.
----	---------------

Server

Reset (Red)	Select to cycle the power to the unit.
-------------	--

Reset (Red)	Select to cycle the power to the unit.
Default (Green)	Select to return the unit to its factory default settings.
Export Logs (Yellow)	Select to export all Logged data to a connected external device.
Restore (Blue)	Select to restore previously saved settings from the selected media.
Save (Purple)	Select to save current unit settings to the selected media.

PowerScript Mgmt

This menu enables installed PowerScripts to be activated/deactivated on start-up. Use the tickbox(es) to select/deselect installed PowerScripts, then select Save (Green). A system reset will be required for the changes to take affect.

PowerScript Management

This page enables you to select which PowerScripts are automatically run when the unit starts up. Use the tickboxes below to select which scripts you require and then click Save. You will need to restart your unit for the changes to take effect.

NOTE: Clicking Save will alter DEFAULT.C, if you already have a custom PowerScript on your unit which uses the DEFAULT.C file, please contact your regional Technical Support before using this page.

Save

PowerScript	Run at Startup	Description
analytics.c	<input type="checkbox"/>	This file launches the appropriate analytics scripts based on the current licences

Reset

Save

Refresh

Note: Changes this page will alter the 'Default.C' file. If you already have a custom PowerScript on your unit which uses Default.C, please contact Dedicated Micros Technical Support for guidance Tel: +44 (0) 845 600 9502 for further guidance.

- | | |
|------------------|--|
| Reset (Red) | Select to cycle the power to the unit. |
| Save (Green) | Updates the DEFAULT.C file on the unit to enable selected scripts on reboot. |
| Refresh (Purple) | Refreshes the information on the current page. |

USB Configuration

Note: Greyed menu option will be available if the mode is changed from Console to DVR or Encoder, they are not available in the Console configuration. They are included for reference only.

This page allows one of the USB sockets on the unit to be configured for use as an external storage output. A high capacity USB device could then be connected and used to store recorded video images.

USB Drive Allocation

Allocation Table

Mount Point	Mounted	Appdrive	Video
/udd0	NO	NO <input type="button" value="Allocate"/>	NO <input type="button" value="Allocate"/>
/udd1	NO	NO <input type="button" value="Allocate"/>	NO <input type="button" value="Allocate"/>
/udd2	NO	NO <input type="button" value="Allocate"/>	NO <input type="button" value="Allocate"/>
/udd3	NO	NO <input type="button" value="Allocate"/>	NO <input type="button" value="Allocate"/>

Physical Devices

Device ID	Capacity (Mb)	Current Mount Point	Reserve Mount Point	Format Device
No physical drives found				

Clear Video

Refresh

Allocation Table

The table allows a USB input to be assigned to the external storage output. Select the relevant 'Allocate' button.

Mount Point

Allows the available features to be assigned to the unit USB connections /udd0, /udd1, /udd2 and /udd3

Mounted

Shows whether the unit has recognised the storage device.

Appdrive

Designate this USB storage as an appdrive allowing the unit to store application data such as where the web pages and main application binaries sit.

Video

Allocate this USB storage device as a video storage area

Physical Devices

Information relating to any connected USB media device will be detailed here.

There is also the ability to format previously unused USB storage devices with the Dedicated Micros standard disk format to allow it to integrate with the unit.

Clear Video (Red)

This button will remove the reference to the video stored on the USB devices, allowing them to be overwritten. It does NOT delete the data instantly.

Refresh (Purple)

Refreshes the information on the current page.

Utilising USB Memory

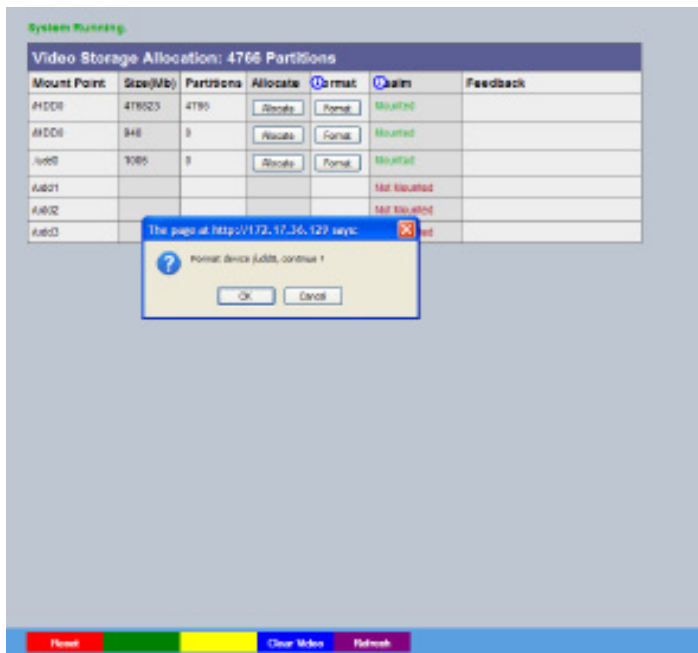
1. Navigate to System -> Video Storage.

System Running

Video Storage Allocation: 4766 Partitions						
Mount Point	Size(MB)	Partitions	Allocate	Format	Claim	Feedback
/HDD0	476625	4766	<input type="button" value="Allocate"/>	<input type="button" value="Format"/>	<input type="button" value="Claimed"/>	
/HDD1	348	0	<input type="button" value="Allocate"/>	<input type="button" value="Format"/>	<input type="button" value="Allocated"/>	
/usb0	7096	0	<input type="button" value="Allocate"/>	<input type="button" value="Format"/>	<input type="button" value="Not Allocated"/>	
/usb1					<input type="button" value="Not Allocated"/>	
/usb2					<input type="button" value="Not Allocated"/>	
/usb3					<input type="button" value="Not Allocated"/>	

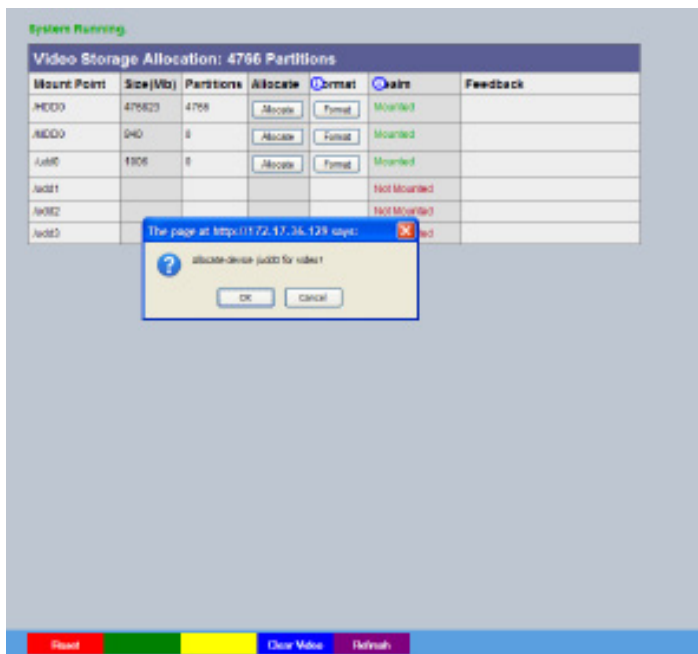
The Video Storage Allocation table displays drives that are available for video recording. Entries with the prefix '/HDD0' indicate the units local hard drive (if installed), entries prefixed by '/udd0' are recordable media connected to the unit via USB sockets, an entry prefixed by '/mdd' is the installed SD card.

1. Plug a USB storage device into one of the available USB ports and click the purple Refresh button. The newly connected device will be displayed with a '/udd' prefix. The SD card (if installed) will also be displayed and can be allocated in the same way. USB devices will be prefixed udd, SD cards will be prefixed MDD.
2. The device may require formatting. DM recommends the device is formatted even if it was previously been used as video storage. Click on the 'Format' button adjacent to the device listing to prepare the device for recording.



- Allocate the formatted and mounted storage for video storage by clicking on the 'Allocate' button. Allocation takes between a few seconds and a few minutes, depending on the size of the drive, and the Feedback column will display information about the allocation process. The unit will require a Reset once allocation is complete.

Note: The unit application drive is protected, if it is allocated the unit will only remove the video folder. Formatting any other device will remove all data. In either case recording on the system is halted while formatting and, if already allocated, the formatted device will be de-allocated as a video storage device



The system displays a confirmation box to ensure the correct device has been selected. Click OK to confirm, then reboot the system. Once the power has cycled, the system will build the required PAR files ready for recording to commence, progress will be displayed in the Feedback column.

Note: There will be a pause before recording begins, dependant on the size of the USB device as video partitions are built.

Console Settings

The menus under the Console Settings heading allow the unit's Viewer display settings to be altered and User Account details to be viewed and changed.

IMPORTANT: *The Console Setting pages will only be available when the unit is operating in either 'Console' or 'Server' mode.*

The Systems page dictates which cameras and systems the HD NetVu Console will connect to, and controls how the video feeds will be displayed.

The Systems Overview page gives an overview of all connected cameras and their home servers across all systems.

Note: *The Systems Overview page can only be accessed if viewing the Configuration menus remotely via an IP connection.*

The Remote Monitors page allows monitors not physically connected to the unit to view camera images received by the unit.

The Viewer Defaults page allows the Viewer menu settings to be configured.

The Display page controls how the local monitors present information. They control whether text will be displayed on the Main or Spot monitors, the colour of that text, and how long cameras being displayed in sequence will be shown on screen.

The Maps page allows images to be imported and used as maps displayed in the Viewer menus. Hot spots can be added to allow quick navigation to individual cameras.

The Map Data page allows Map Config information to be saved for future use. Previously saved data can also be uploaded.

The User Accounts page helps protect configuration procedures by limiting access to specific users via accounts and passwords.

Systems

The unit can be configured with up to 20 systems. A system is a collection of DVRs and cameras selected from those DVRs. Systems are not formally connected networks but a collection of DVRs viewable over an IP network. Each system provides access and control of up to 99 cameras at any one time.

Each individual system can be selected from a drop down menu.

Camera numbering is sequential within that system (up to the maximum 99 cameras per system).

Note: For local camera feeds to function correctly, ensure the first server option for System 1 is configured to display the local cameras as shown below:

Server URL	Server Name	Camera Selection
localhost	local	1-4, 1-8 or 1-16

Remote server / System Configuration

Save

System

System 1

System Name

Server URL	Server Name	Camera Selection
localhost	Local	1-4

Auto Fill

Auto Fill

Auto Fill

Auto Fill

Auto Fill

Auto Fill

Auto Fill

Auto Fill

Format for camera selection:
 Individual cameras: eg 1,2,3 or 1;2;3
 Camera ranges: eg 1-3 or 1_3

Refresh

- | | |
|------------------|--|
| System | Select from 20 available systems using the drop down menu. |
| System Name | If required, enter a recognisable name for the system (this name is held on the HD NetVu Console and represents the system). |
| Server URL | Enter the IP addresses of the servers providing the video signals. |
| Server Name | Enter a name for the accompanying requested server (this name is held on the unit and represents this server). |
| Camera Selection | Select the cameras to be accessed. To select individual cameras, use the format 1,3,5 or 1:3:5 etc. To select a range of cameras, use the format 1-3 or 1_3 etc. All connected, non-covert cameras within the range will be added in numerical connection order. |

Auto Fill	When the Server URL has been entered, select the 'Auto Fill' option to auto include the Server Name and ALL available cameras from that server.
Save (Purple)	Select to save current unit settings to the selected media.

Systems Overview

This menu gives an overview of all connected cameras and their home servers across all systems. The numbers allocated to each camera, both 'locally' within each System, and 'remotely' by their servers are displayed. The Configuration pages for each connected server can also be accessed (if access rights permit).

Note: This page will only be available if accessing the Configuration menus remotely i.e. via an IP connection.

Remote Server / System Overview

System 1:

Local Cam Num	Remote Cam Num	Server URL	Server Name	Configure Server
1	1	localhost	Local	
2	2	localhost	Local	
3	3	localhost	Local	
4	4	localhost	Local	
Total: 4 cameras, 1 server				

Refresh

Local Cam Num

Identifies the number the camera is allocated in each system i.e. to access Camera 1 in System 1, first select System 1 via the System Selection map, then select Camera 1.

Remote Cam Num

Identifies the number the camera is allocated on its server. Selecting this number via the Viewer menus **will not** result in images from that camera being displayed.

Server URL

Displays the URL of the server supplying the video images.

Server Name

Displays the name of the server supplying the video images.

Configure Server

Select the Config Pages option (displayed here if applicable) to access the configuration pages for the selected Server.

Note: Passwords may be required to successfully access server configuration pages.

Remote Monitors

This menu allows monitors not physically connected to the unit to view camera images received by the unit. The IP address of the server connected to the monitor (or video wall) is required. Cameras can then be selected via the remote monitor

Remote Monitor Setup

Save

Remote Monitor

1localhost

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

Refresh

Up to 16 remote monitors (or video walls) can be configured. Enter the IP address of the server connected to the monitor.

Save (Purple) Select to save current unit settings to the selected media.

Viewer Defaults

This menu allows configuration of settings for the Viewer function. For more information regarding this feature refer to 'Operating The Viewer'.

Viewer Defaults Save

	Local	Remote [LAN]	Remote [WAN]
Default Image Format	MPEG	MPEG	MPEG
Default Full Req	High	High	High
Default Quad Req	Medium	Medium	Medium
Default Multi Req	Medium	Medium	Low
Default Multi Display	QUAD	QUAD	
Startup Multi Display	FULL	FULL	
Startup Camera	1: Camera 1	1: Camera 1	
Video Output Mode	Safe mode		
Decoder Mode	Normal Display		
Mouse Sensitivity	<input type="range"/> 4		
Applet Location	/gui/viewer/applets/%OPERATING_SYSTEM%/viewer-		
Set Location	- Choose Location -		

Reset required

Reset Refresh

Default settings can be configured for accessing the Viewer function via a local monitor and also remotely via a network connection (settings can be optimised for either a LAN or WAN connection).

- | | |
|-----------------------|---|
| Default Full Req | Images displayed full screen in the Viewer menus can be shown in either High Medium or Low resolution. |
| Default Quad Req | Images displayed in Quad format in the Viewer menus can be displayed in either High Medium or Low resolution. |
| Default Multi Req | Images displayed in Multi format in the Viewer menus can be displayed in either High Medium or Low resolution. |
| Startup Multi Display | When accessing the Viewer function, select the display format which will initially be displayed. |
| Startup Multi Display | When accessing the Viewer function, select the display format which will initially be displayed. |
| Startup Camera | When accessing the Viewer function, select the camera image which will initially be displayed. If one of the multi display formats has been selected via the 'Startup Multi Display' option, the camera channel selected here will be displayed in first (top left) position. Subsequent camera channels will be displayed in sequential order. |

Video Output mode	<p>Select the display output that best suits the viewing monitor. Typically PAL Default is most suited for a CRT monitor, PAL Reduced for a TFT monitor.</p> <p>Select from:</p> <ul style="list-style-type: none"> PAL Default PAL Reduced HD Default HD 4x3 <p>Note: <i>It will be necessary to reboot the unit to implement any change to the Video Output Mode. The unit can be rebooted via the Reset (Red) option.</i></p> <p>Note: <i>If there is no suitable standard configuration to suit the monitor in use, refer to 'Appendix F - Monitor Output' for details on enabling more options.</i></p>
Decoder Mode	<p>Select from Normal Display or Decoder Mode. Normal Display allows cameras to be accessed and controlled via the Viewer menu. In Decoder Mode, connected cameras can be accessed, viewed or controlled via Dedicated Micros Pick-a-Point system.</p> <p>Note: <i>For further information regarding Dedicated Micros Pick-a-Point system, please contact Dedicated Micros customer services in your region.</i></p>
Mouse Sensitivity	<p>The sensitivity settings of the mouse can be adjusted from the least sensitive (1) to the most sensitive (10). The setting can be adjusted via the sidebar or a number entered directly into the accompanying textbox. The default setting is 4.</p>
Applet Location	<p>The location of the unit's Viewer menu applet is displayed. The default location will always be the applet installed on the unit. If accessing multiple units via a remote connection, all can be assigned the same Viewer applet. This will lessen the load time required when accessing different DVRs/Servers. For example, if a local unit and a remote DVR are to be accessed, it is possible to set the Applet location for both DVRs as the local unit. If viewing the unit remotely, Dedicated Micros provide a remote applet. This remote applet can be selected via the 'Set Location' option. The applet is located on the website (www.dedicatedmicros.com/software_release/index_firmware.php). Due to possible bandwidth restrictions on the network the DVR is located, using this remote applet may improve data transfer speeds.</p>
Set Location	<p>Select the applet location. Choose from 'Default location' i.e. the applet installed on the unit; or the 'website' option i.e. the remote applet.</p>
Reset (Red)	<p>Select to reset the unit and implement any changes made to the 'Video Output mode' or 'Applet Location' fields.</p>
Save (Purple)	<p>Select to save current unit settings to the selected media.</p>

Display

This menu allows configuration of monitor settings used when viewing camera images and text data.

Display Setup Save

Main monitor text On

Background Colour Black Text Colour White

Sequence Dwell 5 Sequence main on startup ☐

Softkey Timeout (s) 20 Numeric Input Timeout (s) 3

Hide Mouse Cursor ☐

Enable custom segment setup ☒

Camera selection switches to full screen ☐

Red Green Yellow Select All Refresh

Main monitor text	It is possible to select text to be displayed on the main monitor. The text displayed will include; time, date, mode of operation (Set, Unset or Override), camera number and camera title.
Background Colour	A black background appears by default around the text. It is possible to change the colour of this background. Select from the options available in the drop down list.
Text Colour	The colour of the displayed text can be changed. Select from the options available in the drop down list.
Sequence Dwell (secs)	The sequence dwell time can be set from 1 to 99 seconds. The dwell time is the period a camera's images are displayed before switching to the next camera in the sequence.
Sequence main on startup	Select to sequence live views from all connected cameras on the main monitor upon system start-up.
Softkey Timeout	Enter the number of seconds unused key inputs on the monitor output will be displayed before disappearing.
Numeric Input Timeout(s)	Enter the number of seconds unused numeric inputs on the monitor output will be displayed before disappearing.
Hide Mouse Cursor	Select to hide the mouse cursor displayed on a local monitor connection.

Enable custom segment setup	Select to activate the custom segment setup feature. When selected, a user can configure a Quad or Multiscreen layout via the Viewer menu. The configured layout can include any camera in any available segment.
Camera selection full screen	Select to auto switch to full screen mode any camera channel selected from 'Multi' display (selected via the Viewer feature).
Select All (Blue)	Select to add all available cameras to the Spot Monitor Sequence.
Save (Purple)	Select to save current unit settings to the selected media.

Maps

This menu allows images to be imported and used as maps that can be displayed in the Viewer Menus. The map can then have hotspots added to allow quick navigation to individual cameras. An overview 'System Selection Map' can also be added to navigate between different systems.

System/Camera Map Configuration

Save

Configure Map

System 1 Map

Graphic location

/maps/camera-select-16.gif

Map Screen Offset

X 30 Y 30

Camera Select

Camera 1

Activate hotspot

☒

Hotspot radius

32

Increment by

5

Decrement

Increment

Hotspot X coord

68

Hotspot Y coord

71

Hotspot Origin (deg)

-1

DEDICATED MICROS

01

02

03

04

05

06

07

08

09

10

11

12

13

14

15

16

Decrement

Increment

Map Data

Refresh

Configure Map

Select the relevant system using the drop down menu, or use the 'Overall System Selection Map' option to create a map to navigate between systems.

Graphic Location

The Overall System Selection Map will display all available numbered systems. Selecting a hotspot then opens the relevant System camera map.

Map Screen Offset

Enter the location of the relevant map graphic, including the **full** I.P address of the server holding the map. The map image will be displayed if linking is successful. The linked map can be in gif or jpeg format and should not exceed 500 by 350 pixels.

Camera Select

These co-ordinates represent the top left corner of the map graphic as displayed in the Viewer menu.

Activate Hotspot

Select which camera is to be linked to the created hotspot.

Hotspot Radius

Select to activate and display the camera hotspot.

Enter the radius (in pixels) of the hotspot.

Increment by	If using the Decrement (Red) or Increment (Green) buttons, enter the size (in pixels) that the hotspot will increase/decrease.
Decrement (Red)	Select to reduce size of hotspot.
Increment (Green)	Select to increase size of hotspot.
Hotspot X coord	Use to position the centre of the hotspot along the X axis e.g. entering 20 would place the hotspot centre 20 pixels from the left edge of the map.
Hotspot Y coord	Use to position the centre of the hotspot along the Y axis e.g. entering 20 would place the hotspot centre 20 pixels from the bottom edge of the map.
Note: <i>The hotspot can also be positioned by clicking directly on the map.</i>	
Hotspot Origin (deg)	<p>This option should be used when the hotspot relates to a Dedicated Micros Oracle Dome camera. Clicking the hotspot will send the Oracle Dome camera to a pre-determined view (absolute positioning). However if the dead centre of the hotspot is selected, the camera will be viewed from its current location.</p> <p>The absolute positioning point will depend on the data entered here. A setting of '0' would result in the camera facing its Original (base) position. To change the preset position, enter a number between 1 and 360. A setting of 20 would set the preset position to 20 degrees to the right of its 'origin' position, 180 would send it to face in the opposite direction (of its base position) . <i>For information on establishing an Origin position for a PTZ camera, refer to the 'Viewer Menus-PTZ Profile menu'.</i></p>
Decrement (Red)	Select to reduce size of hotspot.
Increment (Green)	Select to increase size of hotspot.
Map Data (Yellow)	Select to open the Display->Map Data page
Refresh (Purple)	Refreshes the information on the current page.

Map Data

The Map Data menu allows Map Config data to be Imported/Exported. This enables map data to be saved and stored for future use, or used between multiple DV-IP Servers.

Note: The Map Data menu will only be available when viewing the menu pages remotely i.e. via the webpages.

System/Camera Map Data Import/Export

Save

Instructions

Below is a dump of all the map config data, you can copy this to a text file for backup or paste in new data for quick setup

Map Data

```

/maps/system-
select.gif**$*30x30,61x72x32,155x72x32,249x72x32,
/maps/camera-select-
16.gif**$*30x30,68x71x32,188x71x32,308x71x32,428x
/maps/camera-select-
16.gif**$*30x30,68x71x32,188x71x32,308x71x32,428x
/maps/camera-select-
16.gif**$*30x30,68x71x32,188x71x32,308x71x32,428x
/maps/camera-select-
16.gif**$*30x30,68x71x32,188x71x32,308x71x32,428x
/maps/camera-select-
16.gif**$*30x30,68x71x32,188x71x32,308x71x32,428x
/maps/camera-select-
16.gif**$*30x30,68x71x32,188x71x32,308x71x32,428x
/maps/camera-select-
16.gif**$*30x30,68x71x32,188x71x32,308x71x32,428x
/maps/camera-select-
16.gif**$*30x30,68x71x32,188x71x32,308x71x32,428x
/maps/camera-select-
16.gif**$*30x30,68x71x32,188x71x32,308x71x32,428x
/maps/camera-select-
16.gif**$*30x30,68x71x32,188x71x32,308x71x32,428x

```

Map Config

Refresh

To save map data, highlight and copy all text displayed in the Map Data text window, then save this data as a text file.

To import data, copy relevant text from an external location and paste into the Map Data text window. When the menu is exited, this data will be used as the Map Config settings.

Note: Dedicated Micros recommend the existing Map Data is saved before import.

Map Config (Yellow)

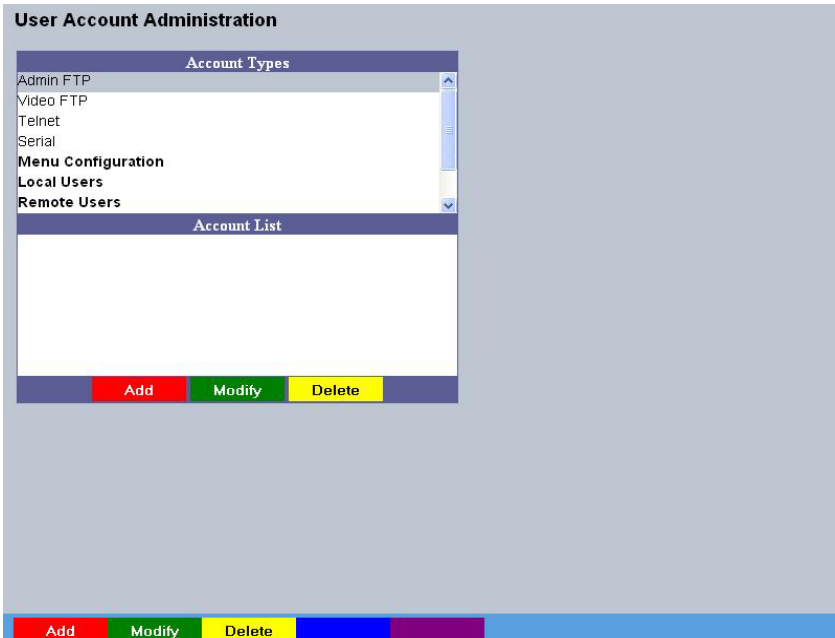
Select to open the Display->Map Config page

Refresh (Purple)

Refreshes the information on the current page.

User Accounts

The unit can protect configuration procedures by limiting access via usernames and passwords.



Account Types

The available account types for which users and passwords can be assigned privileges are:

- Admin FTP Assigning username and password requirements for the Admin FTP function will limit access to the unit via an FTP connection.
- Video FTP Assigning username and password requirements for the Video FTP function will limit access to the Video FTP archiving feature (used with NetVu ObserVer).
- Telnet Assigning username and password requirements for Telnet connections will limit Telnet access to the unit (Telnet can be used to upgrade the unit).
- Serial Assigning username and password requirements for Serial connections will limit access via a Serial link.
- Menu Configuration Assigning Menu Configuration access privileges will limit access to the Configuration menus when viewed locally. When implemented, the user will be prompted for a username and password before access to the Configuration menus (via the main menu) will be granted.

- Local Users Assigning Local Users access privileges will limit access to the Viewer pages for local users. When implemented, the local user will be prompted for a username and password before access to the Viewer pages (via the main menu) will be granted.
- Remote Users Assigning Remote Users access privileges will limit access to the Viewer pages for remote users. When implemented, the remote user will be prompted for a username and password before access to the Viewer pages (via the main menu) will be granted.

It is possible when granting access privileges to Local and Remote Users to limit access to specific cameras. Use the Camera Selection segment of the Add New Account menu, enter those cameras for which access will be permitted. Select the cameras in accordance with the input channel connected to on the rear of the unit. For example, to allow access to camera 1 to 3 inclusive, enter: 1-3. To grant access to cameras 1,3 and 6, enter 1,3,6. If no camera data is entered, access will be allowed to all connected cameras in both live and playback modes.

Note: *There are no default usernames and passwords for any of the Account Types. If none are assigned, access will be granted to all users and no request for a username and password will be made.*

Account List

When an Account Type is highlighted, details of users with access will be displayed.

Add Highlight an administration feature i.e. Serial and select 'Add'.
Enter the new User Name and Password. That user's name will now be displayed in the account list.

Modify/Delete To modify or delete a user's settings, highlight the user in the list and press the relevant button to Modify or Delete.

Note: *If viewing the User Accounts page via a local monitor and navigating with the I.R Remote Control. Press the right directional button from the menu tree to access the Account List.*

Enter the new User Name and Password. That user's name will now be displayed in the account list.

Modify (Green) To modify user setting, highlight the user in the list and press to Modify.

Delete (Yellow) To delete a user, highlight the user in the list and press to Delete.

Camera Settings

Note: *Greyed menu option will be available if the mode is changed from Console to DVR or Encoder, they are not available in the Console configuration. They are included for reference only.*

The Camera Settings menus allow configuration of cameras connected to the unit.

The Camera Setup page allows the quick configuration of all connected local camera channels (with a dynamic preview available).

The Camera Overview menu details the general settings assigned to each of the local camera channels.

The IP Streams menu allows the selection of High, Medium and Low resolution settings for video sources originating from a network based source i.e. IP Server. These streams are configured on the remote device. This feature is predominately intended for use with 3rd party IP camera streams (connected via the 3rd party IP camera unlock feature).

The Unallocated Cams menu details the cameras that are available to the Closed IPTV system but are not assigned to a camera channel. This will normally be because a BNC (Analog) camera has been allocated the same channel as an IP camera, which has become automatically unallocated.

Camera Setup

Note: Greyed menu option will be available if the mode is changed from Console to DVR or Encoder, they are not available in the Console configuration. They are included for reference only.

This menu allows the configuration of active camera channels.

IMPORTANT: The menu options displayed will differ depending on the camera 'Type' and 'IP Mode' selected.

Note: Ideally any setup options available locally on the camera should first be used to best obtain a suitable image quality.

Mono/Colour Camera

Load Video Window (grey)
Camera

Camera Nuisance Count

Title

Press to initiate the applet to display the camera view.
Select a camera channel for review and adjustment.

This is a repetitive detector value. When a camera failure alarm is received on the unit, it will store the alarm time and monitor the number of times the same alarm is triggered within an hour period. If the detector is triggered the number of times entered here, the unit will set the camera to 'No Connection'. To disable this feature, leave the setting as '0'.

Assign a recognisable name to the camera. This will be displayed in all references to the camera in the both the Configuration and Viewer menus.

Type	The settings will default to 'Colour'. If Monochrome cameras are used, select 'Mono'. Selecting 'Mono' will remove colour patterning. Select 'IP' for an IP Camera. If a particular channel is not in use or the camera has failed, select 'No Conn'.
IMPORTANT:	<i>The menu options displayed will differ depending on the camera 'Type' selected here.</i>
Fail Rep	Select this option to generate a Failure report in the event of camera connection failure.
Telemetry	If a telemetry capable camera is connected, the appropriate control protocol should be selected from the accompanying drop down list, refer to 'Appendix G' for details of supported telemetry protocols.
Default to preset	If a telemetry camera has been assigned a preset position, select the chosen preset position here. Enter the time period (in minutes) of inactivity which will result in the camera moving to its preset position, For guidance on assigning camera presets refer to Viewer menus->Program Page.
after X mins	Refer to 'Default to preset'.

Note: *The following settings will change depending on the type of camera connected.*

If a Local Analog Camera is selected

Colour	Select a colour value from -8 to +8 via the slidebar or enter a number directly into the accompanying textbox.
Brightness	Select a contrast value from -8 to +8 via the slidebar or enter a number directly into the accompanying textbox.

IP Camera - For reference only

If a NetVu Connected IP Source is selected

IP Type

Select the type of NetVu Connected source the camera stream is originating from. Select from:

'NetVu Server' - i.e. DVIP Server, DVIP RT, SD, SD Advanced, EcoSense.

'NetVu Gen 2' - i.e. DS2, BX2.

'NetVu Camera' - i.e. the CamVu 2000 from Dedicated Micros.

'NetVu ANPR' - i.e. the HyperSense ANPR camera from Dedicated Micros.

IP Mode

Select the IP mode used to receive incoming IP data. Select from:

Simple Stream - Received IP streams are non-compressed and are viewed as configured on the originating source.

Recode Stream - When selected, the unit will recompress the incoming IP stream to the record profile settings established for this camera channel in the Profile Record menu (Record Settings->Profile Record). This feature is only accessible with 3rd party IP camera when the 3rd party IP camera license has been enabled.

Remote codec When selected, the unit will utilise the codec in the remote NetVu connected video server/ camera to allow change Multimode profiles and perform additional activities such as VMD and Activity Detection as if the codec was an integral part of the DVR. If 'Remote codec' is selected, the loading on the unit's internal codecs will be reduced.

IMPORTANT: The Remote codec option is only applicable for NetVu Connected cameras.

Note: Inputs 1-4 can be analogue camera, Remote Codec, Simple Stream or Recode stream.
Inputs 5-8 can be Remote Codec only.

When 'Simple Stream' and 'Recode Stream' are selected via 'IP Mode', the following options will be available:

IP Address

Enter the URL address of the image source.

Channel

If the URL is a multichannel device (e.g. HD NetVu Console), this specifies which channel to use.

Both types

Live Trans (Red)

Select to open the Network->Live Trans page

View Profile (Green)

Select to open the Record Settings->Profile Record page

Basic (Yellow)

Select to open the Serial Ports->Camera page.

Lens Setup (Blue)

Select to open the Camera Lens Configuration page

Refresh (Purple)

Refreshes the information on the current page.

Camera Lens Configuration - For reference only

This page allows different lens de-warping techniques to be applied to connected cameras. The unit can de-warp Fish-eye and Depressive Fish-eye lenses to present a normal aspect image.

Camera Lens Configuration

Save

Title	Lens Type	Pitch	Ratio (H)	Ratio (V)	Ratio x100
Camera 25	Normal	0	4	3	120
Camera 26	Normal	0	4	3	120
Camera 27	Normal	0	4	3	120
Camera 28	Normal	0	4	3	120

Cam Setup

Cam Overview

Refresh

Title	Shows the allocated name of the video source.
Lens Type	Allows selection of fisheye, depressive fisheye and normal lens types.
Pitch	Allows the image to be rotated counterclockwise by ninety degrees.
Ratio (H)	Allows the horizontal ratio of a panamorphic lens to be set.
Ratio (V)	Allows the vertical ratio of a panamorphic lens to be set.
Ratio x100	Allows the multiplier ratio of a panamorphic lens to be set.
Cam Setup (Red)	Select to open the Camera -> Setup page
Cam Overview (Green)	Select to open the Camera -> Overview page
Refresh (Purple)	Refreshes the information on the current page.

Camera Overview

Note: Greyed menu option will be available if the mode is changed from Console to DVR or Encoder, they are not available in the Console configuration. They are included for reference only.

This menu details the general settings assigned to each of the local camera channels.
To edit the settings assigned to any of these cameras:

Click on Local Camera Setup to edit the settings held in the SD Advanced.

Click on 'Setup' to open the Setup menu on the connected video source.

Note: The Layer3 Enhanced CCTV switch image will only be displayed when the unit is operating within a Closed IPTV system.

Camera Overview

Legend: No Test, Linking, IP Connected, Unassigned, Output IP, Duplicate, Unknown

Current Camera Configuration

Port	Type	Manually Assigned	Duplicate Allocation	Class	Telemetry	IP Source	IP Channel	MAC	Address	Product	Protocol	Version
1: Port 1	IP Camera: Remote Codec	No	No	35080818 P1000000 (VGA)	None	192.254.8.219	1	08:00:02:08:22:7C	C2FVU 500	CAMVU_500	6.6 (1.0.0.11 Rev 1.0)	16MB 2019-03-07 14:28
2: Port 2	IP Camera: Remote Codec	No	No	35080818 P1000000 (VGA)	None	192.254.102.172	1	08:00:02:08:22:7C	172.17.44.5	C2FVU 2800	CAMVU_2800	6.6 (1.0.0.15) C1CP 2019-10-08 17:54
3: Port 3	IP Camera: Remote Codec	No	No									

Buttons: CIP Settings, Unalloc, Refresh

CIP Settings (Red)

Unalloc (Green)

Refresh (Purple)

Select to open the Closed IPTV->Settings page

Select to open the Camera->Unallocated Cams page

Refreshes the information on the current page.

IP Stream Inputs

Note: Greyed menu option will be available if the mode is changed from Console to DVR or Encoder, they are not available in the Console configuration. They are included for reference only.

The IP Streams menu allows the selection of High, Medium and Low resolution settings for video sources originating from a network based source i.e. IP Server. These streams are configured on the remote device. This feature is predominately intended for use with 3rd party IP camera streams (connected via the 3rd party IP camera unlock feature).

Note: The IP Stream needs to be set to Simple Streaming on Camera->Setup.

Note: There is only normal 'non event' recording for connected IP cameras.

Channel Select a camera channel for review and adjustment. Only those cameras designated as 'IP' in the Camera Setup menu will be available (Camera Settings->Camera Setup).

Copy to all Select this option to apply current settings to all connected cameras.

The following options can be configured for Set, Unset and Override record profiles when operating under Normal (non Event) conditions. For information regarding record modes, refer to Configuration Menu:Record Settings->Profile Record.

Comp Select image compression format (MPEG or JPEG).

Res For both MPEG and JPEG recording, select either High, Medium or Low quality resolution settings.

Note: To view a local third party IP camera 'live', IP recording should be set to MPEG.

IP Camera (Yellow)

Schedule (Blue)

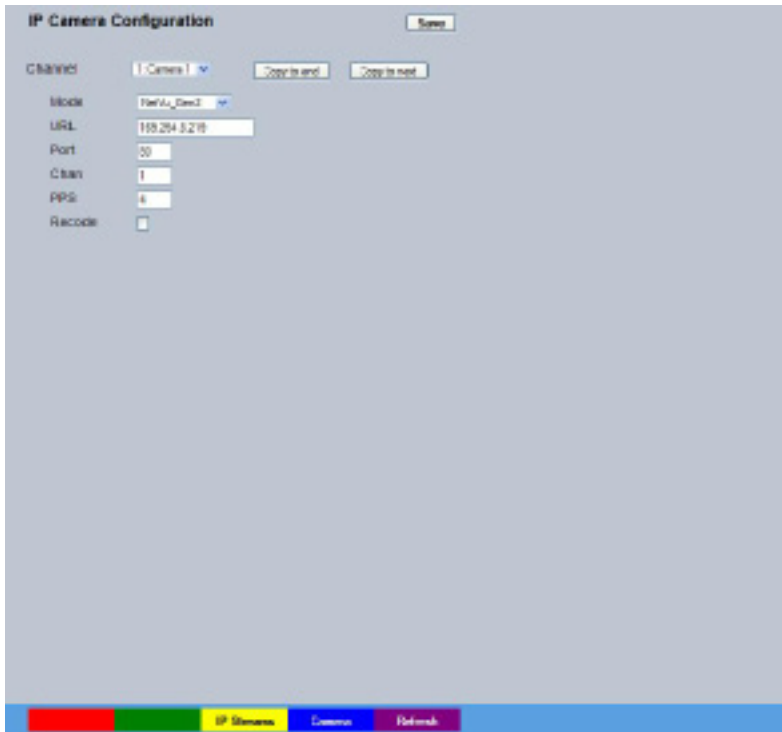
Refresh (Purple)

Select to open the IP Camera Configuration menu.

Select to open the Schedule->Setup page

Refreshes the information on the current page.

IP Camera Configuration - For reference only



Channel

Select a camera channel for review and adjustment. Only those cameras designated as 'IP' in the Camera Setup menu will be available, (Camera->Setup).

Mode

Select the IP mode used to receive incoming IP data. Select from:

Simple Stream Received IP streams are non-compressed and are viewed as configured on the originating source.

Recode Stream When selected, the unit will recompress the incoming IP stream to the record profile settings established for this camera channel in the Profile Record menu (Record Settings->Profile Record). This feature is only accessible with 3rd party IP camera when the 3rd party IP camera license has been enabled.

Remote codec When selected, the unit will utilise the codec in the remote NetVu connected video server/camera as if it was directly connected inside the DVR. Thus the user can change Multimode profiles and perform additional activities such as VMD and Activity Detection as if the codec was an integral part of the DVR. If 'Remote codec' is selected, the loading on the unit's internal codecs will be reduced.

IMPORTANT: *The Remote codec option is only applicable for NetVu Connected cameras.*

Note: *Additional IP cameras (further to existing local camera channels) are remote codec only. Therefore any NetVu Connected cameras will be applied above local camera level.*

When 'Simple Stream' and 'Recode Stream' are selected via 'IP Mode', the following options will be available:

URL	Enter the URL address of the image source.
Port	If required, edit the port input data. This will default to 80 (HTTP).
Chan	If required, edit the channel input data.
PPS	Edit the PPS (Pictures per Second) recording settings.
Recode	Select to activate the recode option.

When 'Remote Codec' is selected via 'IP Mode', the following options will be available:

IP Address	Enter the URL address of the image source.
Channel	If required, edit the channel input data.
IP Camera (Yellow)	Select to open the Camera->IP Stream Inputs page.
Camera (Blue)	Select to open the Serial->Camera page.
Refresh (Purple)	Refreshes the information on the current page.

Unallocated Cams

Note: Greyed menu option will be available if the mode is changed from Console to DVR or Encoder, they are not available in the Console configuration. They are included for reference only.

Channels can be utilised by the BNC connections on the unit OR by the sockets on any connected Layer3 Enhanced CCTV Switch. If an IP source is plugged into a channel occupied by a BNC connection, the BNC will take priority and possess the channel, whilst the IP connection will be added to the un-allocated list, allowing it to be tied to an available channel through this configuration pages.

Similarly, if a BNC connection is assigned to an occupied IP channel, the IP camera will be 'bumped' onto this list.

Cameras can then be assigned to a free channel, or dismissed as no longer required. A dismissed camera can be added back into the un-allocated list by refreshing the connection (unplugging it from the switch, and plugging it back in again).

Available Unallocated Cameras			
Entry 1 of 1 192.168.8.218			
Assign to: 1 Camera 1		Assign	
Remove Entry			
IP Address:	192.168.8.218	mDNS:	
Switch Number:	1	Port Number:	4
Channel:	1	Video Standard:	0
Horizontal Res:	640	Vertical Res:	480
Aspect Ratio:	4:3	Resolutions:	1/25
Box Codec:	0	MPEG Enabled:	true
JPEG Enabled:	true	H264 Enabled:	true
Alarm:	0	Relays:	0
Audio In:	0	Audio Out:	0
Lens Type:	0		

CIP Settings
Remove All
Refresh
Refresh

- | | |
|--------------------|--|
| Assign to: | Displays all available unassigned cameras. |
| Assign | Assigns the associated IP stream to the selceted camera. |
| Remove Entry | Deletes the associated IP stream from the unallocated cameras list |
| CIP Settings (Red) | Select to open the Closed IPTV->Settings page |
| Remove All (Green) | Deletes all IP stream on the unallocated cameras list |
| Refresh (Purple) | Refreshes the information on the current page. |

Record Settings

Note: Greyed menu option will be available if the mode is changed from Console to DVR or Encoder, they are not available in the Console configuration. They are included for reference only.

The Record Settings menus allow configuration of the unit's record functions. Record settings can be configured for normal operation, on alarm, by schedule and for set holiday and weekend periods. Selected video data can be saved and protected, refer to the individual menus for further details.

IMPORTANT: The Record Setting pages **will not** be available when operating in Encoder mode.

The Default page allows the basic Recording settings to be edited.

The Profile Record page allows the recording configuration to be based on specific priorities. The record rate and quality can be customised to respond appropriately to the alarms and time of day. A high degree of control and flexibility is possible using these options.

The JPEG Pre Trigger page allows configuration of the pre trigger feature (for cameras recording JPEG mode only). When enabled, the pre-trigger feature will buffer and store alarm recording prior to an event trigger

The Protect Video page allows previously recorded data to be protected and retained. If needed, all recording can be halted and saved video deleted.

The AoE Setup page allows configuration of the units ATA over Ethernet (AoE) function. AoE is a network protocol designed for simple high-performance access of storage devices over Ethernet networks. Importantly the external storage device must be located on the same network as the unit.

Default

Note: Greyed menu option will be available if the mode is changed from Console to DVR or Encoder, they are not available in the Console configuration. They are included for reference only.

The unit has a range of pre-defined configurations available. As standard the unit can record at 5pps MPEG4. Alternatively the unit can be configured for 1pps JPEG or for MultiMode operation (note that this will result in the record duration being determined by the time period the unit is in alarm).

Camera Record Setup

Save

Days Recording

Not Recording
(Does not include cameras configured as Simple IP)

Timed Expiry (Days)

0

Camera Settings

Normal Rate - MPEG4 5pps

Reduce Duration/Enhance Quality

Low

Refresh

- Days Recording

Displays the record duration possible using the current configuration.
- Timed Expiry

If required, all stored recorded video can be permanently deleted after a set number of days. Set to '0' to de-activate this function
- Camera Settings

Choose the rate of non alarm recording to be used from the range of preset recording profiles. Select from Normal Rate MPEG4 6.25pps or Normal Rate JPEG 3pps.
- Record Duration/Enhance Quality

The recording duration can be limited to a set number of days (Low, Medium or High); allowing the recording quality to be enhanced for a shorter storage period.
- Refresh (Purple)

Refreshes the information on the current page.

Profile Record

Note: Greyed menu option will be available if the mode is changed from Console to DVR or Encoder, they are not available in the Console configuration. They are included for reference only.

It is possible to set the unit recording configuration based on specific priorities. The MultiMode recording feature offers the ability to set different recording rates, resolutions and compression formats across unset, set and override modes. By varying the quality, bit rate and file size of recorded images, the MultiMode function enables the recording capabilities of the unit to be greatly increased. The Profile record menu can be accessed in a Simple format or in Advanced mode. The Advanced mode offering greater opportunities to dynamically edit recording capabilities.

Simple Record

Profile Record Setup

Save

Menu view Simple

Days Recording **0.42**
(Does not include cameras configured as Simple IP)

Channel 1 : Camera 25

Copy to end

Copy to next

	Comp	PPS	Quality
Day Normal	MPEG	5pps	Low
Day Event	MPEG	5pps	Low
Night Normal	MPEG	5pps	Low
Night Event	MPEG	5pps	Low
Weekend Normal	MPEG	5pps	Low
Weekend Event	MPEG	5pps	Low

Refresh

Menu View	Switch to the Advanced Profile Record menu.
Days Recording	Displays the record duration possible using the current configuration.
Channel	Enables selection of a specific camera for editing.
Copy To End	Select to copy the current profile record settings to all camera channels.
Copy To Next	Select to copy the current profile record settings to the next camera channel.
Unset/Set/Override Normal	Shows the recording profile used by the camera if no Timer Functions are applied and the camera is operating under Normal (non Event) conditions. For further details refer to the 'Schedules' section.

Unset/Set/Override Event	Shows the recording quality that will be used by the camera during an Alarm or Event. Note that Set and Override schedules will be used only when Timed Schedules are applied. For further details refer to the 'Schedules' section.
Note: <i>Unset, Set and Override modes can be given more recognisable titles i.e. Day, Night, Weekend via the Schedule menu (Record Settings->Schedule).</i>	
Comp	Select image compression format (MPEG, JPEG).
PPS	The accompanying dropdown list allows the number of frames captured per second to be set. The pictures per second (pps) option allows either 5, 3, 2, 1, 0.5, 0.25 or 0.1 pps to be recorded. Pictures can also be recorded at 'Real Time' speed, '3/4 Real Time' or '1/2 Real Time'.
Quality	To disable record, choose the 'No Record' option. The accompanying dropdown list allows the quality of recorded images to be set. Select from Maximum, Very High, High, Medium, or Low. Select User Defined to use settings established in the Advance Profile Record menu.
Note: <i>The higher the Quality setting, the greater the storage space used.</i>	
Refresh (Purple)	Refreshes the information on the current page.

Advanced Record

Profile Record Setup (Advanced)

Menu view

Advanced

Days Recording

0.42

(Does not include cameras configured as Simple IP)

Channel

1 : Camera 25

Copy to end

Copy to next

	Comp	Res	rate_kbps	size	pps	gop
Day Normal	MPEG	CIF	90		5	5
Day Event	MPEG	CIF	90		5	5
Night Normal	MPEG	CIF	90		5	5
Night Event	MPEG	CIF	90		5	5
Weekend Normal	MPEG	CIF	90		5	5
Weekend Event	MPEG	CIF	90		5	5

Refresh

Menu View

Switch to the Simple Profile Record menu.

Note: When Advanced Record settings have been changed, it is not possible access the Simple Record menu until the newly configured Advanced Record settings have been applied. To do this, open the Record menu and select the 'Save' option. It will then be possible to return to the Profile Record menu and access Simple Record.

Days Recording

Displays the record duration possible using the current configuration.

Channel

Enables selection of a specific camera for editing.

Copy To End

Select to copy the current profile record settings to all camera channels.

Copy To Next

Select to copy the current profile record settings to the next camera channel.

Unset/Set/Override Normal

Shows the recording profile used by the camera if no Timed Schedules are applied and the camera is operating under Normal (non Event) conditions, refer to 'Schedule'.

Unset/Set/Override Event

Shows the recording quality that will be used by the camera during an Alarm or Event. Note that Set and Override schedules will be used only when Timed Schedules are applied, refer to 'Schedule'.

Note: Unset, Set and Override modes can be given more recognisable titles i.e. Day, Night, Weekend via the Schedule menu (Record Settings->Schedule).

Comp

Select image compression format (MPEG, JPEG).

Res

Select image resolution format (QCIF, CIF, 2CIF or 4CIF).

Rate_kbps

If MPEG4 is selected, the figure entered here will be the bit rate allocated. A higher bit rate will provide better quality. MPEG bit rates can be entered within the range of 45-2500K bits/second.

Size	If JPEG is selected, the figure entered here will be the size of the JPEG transmitted (in Kbytes). JPEG file sizes can be configured within the range of 5–45Kbytes.
PPS	Select the number of pictures recorded per second.
GOP	If using MPEG4 recording, select the number of images recorded within a GOP (Group of Pictures). A GOP consists of an I-Frame (keyframe) and following P frames.
Note: The GOP is also the rewind interval and stop interval for MPEG recording playback.	
Note: An MPEG I-frame is considerably larger than a P-frame. Therefore the lower the GOP ratio, the higher the disk space required to store recorded images.	
Refresh (Purple)	Refreshes the information on the current page.

JPEG Pre Trigger

Note: Greyed menu option will be available if the mode is changed from Console to DVR or Encoder, they are not available in the Console configuration. They are included for reference only.

This menu enables configuration of the pre trigger feature (for cameras recording JPEG mode only). When enabled, the pre-trigger feature will buffer and store alarm recording prior to an event trigger.

JPEG Pre Trigger

Save

Channel	Pre Trigger (JPEG)	Duration (secs)
1 : Camera 25	Disable ↓	0

Refresh

- Channel Only those camera channels set to record in JPEG mode will be available for configuration.
- Pre-Trigger (JPEG) Enabling the Pre-Trigger feature will buffer and store alarm recording prior to an event trigger (in JPEG format). It will use the maximum available memory dependent on other cameras requirements of the buffer space. Select 'Enable' to activate.
- Note:** It is recommended that the Pre-Alarm option in the 'Alarm Settings-Zone Input' menu be set to the same value as the Pre-Trigger setting. This will ensure successful playback of high quality Pre-Trigger images. High quality pre-trigger images will only playback properly if review (playback) starts prior to the pre-trigger initiation.
- Pre-Trigger Duration (secs) The Pre-Trigger Duration is the maximum possible time that data will be stored prior to an event trigger.
- Refresh (Purple) Refreshes the information on the current page.

Protect Video

Note: Greyed menu option will be available if the mode is changed from Console to DVR or Encoder, they are not available in the Console configuration. They are included for reference only.

This menu allows the unit to automatically protect and retain recorded data. Previously saved data can also be unprotected. Enter a start and end time and select 'Reload List'. All saved video files from the chosen time period will be shown in the upper textbox. These recorded 'PAR' files can then be selected and protected via their accompanying checkboxes and the Protect option. Selected video files can also be unprotected via the Unprotect option.

The lower textbox provides a status report detailing which video files have been protected/unprotected.

Protect Video Data

Start Date

19/10/10

Start Time

02 : 41 PM

End Date

19/10/10

End Time

02 : 41 PM

Protect period from start date (days)

30

Unprot All

Protect

There are currently no protected PAR files on this unit

List From Date

19/10/10

Time

02 : 41 PM

List To Date

19/10/10

Time

02 : 41 PM

Reload List

Select None

Select All

Unprotect

Unprot All

Protect

Unprotect

Refresh

Start Date

Enter a start date to protect video.

Start Time

Enter a start time to protect video.

End Date

Enter an end date to protect video.

End Time

Enter an end time to protect video.

Protect Length (days)

Enter the number of days that selected files will be protected for.

Protect (Green)

Select this option to protect recorded video for the selected time period(s).

Unprotect All (Red)

Select this option to unprotect all recorded video from the list.

List From Date/Time

This dialog box allows a search to be made within the protected video list starting from a specific Time and Date.

List To Date/Time

This dialog box allows a search within the protected video list to conclude at a specific Time and Date.

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Reload List	This will refresh the video list according to the selections made in the Start Time/Date and End Time/Date dialog boxes.
Select None	This de-selects all the available video files.
Select All	This selects all the available video files.
Unprotect (Yellow)	Select this option to unprotect recorded video for the selected time period(s).
Unprot all (Red)	Select to unprotect all recorded video from the list
Protect (Green)	Select to protect recorded video for the chosen time period
Unprotect (Yellow)	Select to unprotect recorded video for the chosen time period
Refresh (Purple)	Refreshes the information on the current page

AoE Setup

Note: Greyed menu option will be available if the mode is changed from Console to DVR or Encoder, they are not available in the Console configuration. They are included for reference only.

This menu allows configuration of the units ATA over Ethernet (AoE) function. AoE is a network protocol designed for simple high-performance access of storage devices over Ethernet networks. Importantly the external storage device must be located on the same network as the unit. AoE does not rely on network layers such as IP and TCP, making it non routable i.e. routers cannot be used to forward a packet across disparate networks. AoE packets can only travel within a single local Ethernet storage area network (adds a physical layer of security to the information). The stored video can only be accessed by plugging directly into an ethernet socket in the same LAN as the host. This means AoE cannot be accessed over the Internet or other IP networks, but makes AoE more lightweight (with less load on the host), easier to implement, provides a layer of inherent security, and offers higher performance.

Note: Refer to Viewer Menu->Copy Menu for guidance on exporting Event data via the unit's USB port.

IMPORTANT: An additional .ini file must be installed to make use of the AOE feature. Please contact Dedicated Micros Technical support team (+ 44 (0) 845 600 9500) for guidance.

Note: Contact Dedicated Micros Technical support team (+ 44 (0) 845 600 9500) for details of recommended AOE devices.

AoE Setup

Logical Devices

Device Name	Mount Status	Capacity (MiB)	Device ID	Total Partitions
No logical drives found				

Physical Devices

Device ID	Status	Capacity (MiB)	Partitions	
HD000138P-1249C23500000001	FORMATTED configuration	238415	Partition Status	
HD000138P-1249C23500000000000	AVAILABLE	238415	1	Claimed
			2	Claimed
			3	Claim
			4	Claim
			5	Claim
HD000138P-1249C235000000000000	AVAILABLE	15882144	Partition Status	
			1	Claimed
			2	Claimed
			3	Claimed
			4	Claimed
			5	Claimed
			6	Claimed
			7	Claimed
			8	Claimed
			9	Claimed
			10	Claimed
			11	Claim
			12	Claim
			13	Claim
14	Claim			

Logical Devices

Connected AOE Devices - Any devices in this panel are being used by the unit to store data. These can be freed by clicking on the Release button.

Physical Devices

Available AOE Devices - Any devices in this panel are available on the network. They can be added to the storage capability of this unit by 'claiming' the storage, using the 'Claim' button. Unavailable storage is listed as Owned. Claimed storage capacity requires formatting before it can be used.

init config string

This button will remove failed or powered down devices that had previously been recognised and are no longer available.

FDISK

This button will format the whole device, erasing all data previously available on it and setting it up for video data storage.

Refresh (Purple)

Refreshes the current page.

Schedule

Note: *Greyed menu option will be available if the mode is changed from Console to DVR or Encoder, they are not available in the Console configuration. They are included for reference only.*

This menu allows the Timer Function names to be configured. The Timer Function enables the unit to automatically be put into set/unset mode at specific times on specific days. This can help reduce unnecessary alarm triggers. The mode will be set by the DVR that the camera is connected to.

When the unit is in Set or Unset mode, combine with different recording qualities and rates under normal and alarm conditions for a high degree of control in a range of situations.

The Setup page allows configuration of the schedule including naming the modes of operation and controlling when the unit changes between modes.

The RVRC page allows a user to temporarily switch the unit's system state into set/unset/override mode.

The Holiday & Weekend menu allows the unit to be automatically switched to Override mode for individual days i.e. public holidays or during a weekend (or any defined period).

Setup

Note: Greyed menu option will be available if the mode is changed from Console to DVR or Encoder, they are not available in the Console configuration. They are included for reference only.

This menu allows the Schedule function to be configured. This enables the unit to automatically be put into set/unset mode at specific times on specific days. This can help reduce unnecessary alarm triggers.

Combining when the unit is in Set or Unset mode with different recording qualities and rates under normal and alarm conditions gives a high degree of control in a range of situations.

Note: If Keyswitch is Enabled, the Day Time and Night Time options will not be displayed. The additional Keyswitch options will instead be displayed.

Mode/Title Enables a name to be entered for Unset, Set and Override mode.

Note: Any changes to Mode titles here will affect the mode names displayed in the Profile Record, IP Record and Zone Input menu pages.

Current Mode Shows the current timer mode according to the names entered in the Mode/Title text boxes.

Day Time Enter the time (using the 24hr clock) when Unset mode will begin.

Night Time Enter the time (using the 24hr clock) when Set mode will begin.

Keyswitch A Keyswitch can be used to switch the recording profile (Unset/ Set).

Note: When the Keyswitch option is set to 'Enabled'. It is necessary to save (or exit and return to) the menu. The additional Keyswitch options will then be displayed.

Enable-N/O

Select if the Keyswitch is to be normally open (UNSET). Then choose a contact to be used in a specific zone as the Keyswitch.

Enable-N/C

Select if the Keyswitch is to be normally closed (SET). Then choose a contact to be used in a specific zone as the Keyswitch.

Enable EOL

Select to configure the Keyswitch for EOL. The End Of Line (EOL) option enables the Keyswitch to detect any changes in the electronic input resistance. A change outside the expected values will result in a Tamper Alarm (short circuit or open circuit) being detected and the system switching to alarm mode.

With Keyswitch Disabled

Day Specifies which Day of the week is being configured

NOTE: The next two descriptions utilise the standard name settings for the profiles (SET, UNSET). If these names have been changed on the 'Schedule' page, these menu options will display the user configured names.

UNSET Time

Specifies what time in format HH:MM the UNSET recording settings, configured on the Profile Recording page, will become operational

SET Time

Specifies what time in format HH:MM the SET recording settings, configured on the Profile Recording page, will become operational

Note: The arrow button displayed next to each textbox allows settings to be replicated for those cameras listed below. This will only affect the adjacent option i.e. Mode arrow will replicate the Mode setting to all cameras below the clicked arrow.

Note: To disable one day, set both times to 00.00. To have the profile recording all 24 hours of a day, set both times to 24.00

RVRC

Note: Greyed menu option will be available if the mode is changed from Console to DVR or Encoder, they are not available in the Console configuration. They are included for reference only.

This menu allows a user to temporarily switch the unit's system state into set/unset/override mode. The user will be required to enter their name and also the intended override duration. The action will be logged.

Note: Refer to the Schedule menu for details of how to configure Set, Unset and Override modes: Record Settings->Schedule.

Remote Set/Unset/Override

Current System time : 19 October 2010 13:31

System GMT offset in mins : 0

Current timezone : GMT

Current PC time : 19 October 2010 14:30:19

PC GMT offset in mins : 60

Current system state

Day

Override duration (minutes)

Enter Your Name

Force Day

Force Night

Force Week

Force Day

Force Night

Force Week

Refresh

Current System Time The unit's current date and time information will be displayed. This will be logged with any override action.

Current PC Time The current date and time information of the PC currently being used to view the webpages will be displayed. This will be logged with any override action.

Current system state The current system state will be displayed i.e. Set, Unset or Override.

Note: The system state names displayed here will depend on those entered via the Schedule menu: Record Settings->Schedule.

Override duration (minutes) Enter a time period for the override procedure. After this time period, the system state will return to that configured via the Schedule menu (for the current time).

Enter Your Name Enter your recognised user name. This will be logged.

Force UNSET(Green) Select to switch to Unset mode.

Force SET (Yellow) Select to switch to Set mode.

Force OVERRIDE (Blue) Select to switch to Override mode.

Refresh (Purple)

Refreshes the information on the current page.

Holiday & Weekend

Note: Greyed menu option will be available if the mode is changed from Console to DVR or Encoder, they are not available in the Console configuration. They are included for reference only.

This menu allows the unit to be automatically switched to Override mode for individual days i.e. public holidays or during a weekend (or any defined period).

IMPORTANT: Holiday and Weekend settings cannot be entered when a Keyswitch has been enabled in the Record Settings->Schedule menu.

Timer Functions Save

Holidays: 19/10/10 Add

Delete

Weekend: Disable

Start: Sunday 12 : 00 AM

End: Sunday 12 : 00 AM

Refresh

- | | |
|------------------|--|
| Holidays | Enter a date and press the Add button. The date will be added to the Holiday list. To delete, highlight and select Delete. |
| Weekends | Select 'Enable' to activate the Weekend function. Set mode will now be active for the dates outlined below. |
| Start | Select a Start day and time for Weekend mode. |
| End | Select an End day and time for Weekend mode. |
| Note: | Override mode will remain active until weekend is disabled. |
| Refresh (Purple) | Refreshes the information on the current page. |

Alarm Settings

Note: *Greyed menu option will be available if the mode is changed from Console to DVR or Encoder, they are not available in the Console configuration. They are included for reference only.*

The Alarm Settings menus allow configuration of the unit's alarm functionality. Individual alarm inputs and alarm zones can be configured. Global relays can be activated and the Activity grid set up. Refer to the individual menus for further details.

IMPORTANT: *The Record Setting pages will not be available when operating in Console mode.*

The Inputs page allows configuration of alarm channels. Up to 4 alarm channels are available.

The Zone Input page enables the configuration of alarm zones. Up to 32 separate alarm zones can be created.

The Zone Actions page enables actions such as Go to Preset to be allocated to alarm zones. Zones can also be associated with a specific camera. On receipt of an alarm, images from the associated (primary) camera will automatically be displayed in the Viewer menu.

The Masked Camera Det(ection) page allows cameras to generate an alarm if 'masked' , based on a threshold contrast value and dwell time.

The Alarm Response page enables configuration of responses following an VMD/Activity Detection trigger.

The Activity page allowed activation and configuration of the Activity feature on all video inputs. The Activity feature enables cameras to automatically detect any movement/changes within the video scene. This can trigger a number of operations such as FTP alarm notification or an increase in the recording rate.

The VMD page enables the unit's VMD (Video Motion Detection) to be set-up. VMD allows a camera to automatically detect if there is any movement/changes within specific areas of the video scene.

The Global Actions page allows the two onboard relay connections and global relay settings to be configured.

Inputs

Note: Greyed menu option will be available if the mode is changed from Console to DVR or Encoder, they are not available in the Console configuration. They are included for reference only.

This menu allows configuration of the alarm settings, refer to 'Installing the Unit' for hardware installation guidance.

Alarm Input Configuration

Save

For NO/NC changes to take effect either reset the unit or transition the alarm inputs

	Enabled	N/O	EOL	Pulse Ext (s)	Nuisance	Stuck Time (min)
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10	0	0
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10	0	0
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10	0	0
4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10	0	0

Reset

Relays

Status

Zone In

Refresh

Number This identifies which input is being configured. The unit supports 4 on-board alarms.

Enabled Each input must be enabled to function. If the input is not enabled and an alarm is received, the unit will not acknowledge the alarm.

Contact Select the Contact within the module to configure.

N_O (Normally Open Contact) N_O indicates the non-alarm state of the input. Tick the N_O checkbox to set the corresponding input to Normally Open. The alarm will then trigger when the input is closed (shorted). If left as Normally Closed (the default setting), the alarm will trigger when the input is opened.

Note: If EOL alarms are to be used, this option should not be selected i.e. leave set as Normally Closed.

EOL The End Of Line (EOL) option enables the inputs to detect any changes in the electronic input resistance. A change outside the expected values will result in a Tamper Alarm (short circuit or open circuit) being detected and the system switching to alarm mode.

Pulse Ext (s)	A pulse extension is used to prevent double triggers on a single alarm. The pulse extension time starts on an alarm trigger. If that contact is triggered again after the first alarm has finished but within the pulse extension, the second trigger will not restart the alarm, but will extend the current alarm duration. Enter the time in seconds for this extension.
Nuisance	This is a repetitive detector value. When an alarm is received on the unit, it will store the alarm time and monitor the number of times the same detector is triggered within an hour period. If the detector is triggered the number of times entered here, the unit will de-activate this detector from triggering an alarm for an hour. The unit will continue to monitor the detector and check how many times it is triggered during this period. If it is again triggered more than the amount set in the nuisance counter, it will remain de-activated for another hour. This will continue until the trigger value falls below the nuisance count setting. To disable this feature, leave the setting as '0'.
Stuck Time (min)	If any of the alarms/detectors are active for a period longer than specified here, they will automatically be omitted. This time period is set in minutes.
Note: The arrow button displayed next to each textbox allows settings to be replicated for those cameras listed below. This will only affect the adjacent option i.e. Enabled arrow will replicate the Enabled setting to cameras below the clicked arrow.	
Relays (Green)	Select to open the Alarm->Global Actions menu
Status (Yellow)	Select to open the System->Status->Alarm menu
Zone in (Blue)	Select to open the Alarm->Zone Input menu
Refresh (Purple)	Refreshes the information on the current page

Zone Inputs

Note: Greyed menu option will be available if the mode is changed from Console to DVR or Encoder, they are not available in the Console configuration. They are included for reference only.

This menu allows the configuration of established alarm zones. A single or multiple trigger can be used to generate an alarm. It is possible to allocate up to 32 alarm zones to carry out a combination of actions. Use these options in conjunction with the Zone Actions menu.

Zone Input Configuration

Entry Time	<input type="text" value="0"/>	Exit Time	<input type="text" value="0"/>
Zone	<input type="text" value="1"/>	Title	<input type="text" value="Zone 1"/>
Pre Alarm sec	<input type="text" value="2"/>	Alarm Protect sec	<input type="text" value="10"/>
Zone Input Rule			
Input	<input type="text" value="No Connect"/>		
OR	<input type="text" value="No Connect"/>		
AND	<input type="text" value="No Connect"/>		
NOT	<input type="text" value="No Connect"/>		
Alarm 24Hr	<input checked="" type="checkbox"/>	Entry Initiator	<input type="checkbox"/>
Entry Route Zone	<input type="checkbox"/>	Enable in Day	<input checked="" type="checkbox"/>
Exit Route Zone	<input type="checkbox"/>	Enable in Night	<input checked="" type="checkbox"/>
Exit Terminator	<input type="checkbox"/>	Enable in Weekend	<input checked="" type="checkbox"/>

Activity
Zone Act
Alarm In
Refresh

Entry timer

This is the number of seconds allowed for the user to enter the zone and disable the alarms. If the alarm is not disabled within this period the alarm will be triggered..

Exit timer

This is the number of seconds from the alarm being set within which the user must exit the set zone. If the user is still within the zone after this time period the alarm will be triggered.

Zone

An alarm zone can be established to logically groups alarms and initiate actions when an alarm is activated, there are 32 configurable zones.

Title

This information is stored along with the relevant images in the database, ensure this has relevance to the alarm zone.

Pre-Alarm sec.

This is the time period prior to the start of the alarm included with the alarm recording for archive. These images will also be protected from being overwritten.

Note: It is recommended that the Pre-Alarm option be set to the same value as the Pre-Trigger setting in the "Profile Record" menu. This will ensure successful playback of high quality Pre-Trigger images. High quality pre-trigger images will only playback properly if review (playback) starts prior to the pre-trigger initiation.

Alarm Protect sec.	This is the minimum time period in seconds (from the start of the alarm) that is protected from being overwritten. This time will include the alarm trigger, the pulse extension and any post alarm recording. It will not include pre-alarm images.
Zone Input Rule Input	This determines which input(s) will trigger the zone alarm: This sets an input or system function as the primary alarm trigger. Select from Preset 1- 4, Disk Low, Disk Full, Panic, Archiving Slow, Archiving Fault, Virtual 1-16, and Keyword Channel 1 (which will trigger the Alarm if any of the programmed keywords are detected).
Zone OR Input	The Zone OR Input identifies an alternative input that can also be used to trigger the zone alarm. This means an alarm trigger can be received on the Zone Alarm Input or the Zone OR Input for the zone to be activated.
Zone AND Input	The Zone AND Input identifies that an alarm trigger needs to be received on both the Zone Alarm Input and the Zone AND Input for the zone to be activated and the alarm action to be automatically initiated.
Zone NOT Input	The unit will only issue the alarm actions if the trigger is received on the zone alarm input and NOT on the Zone input.
Alarm 24hr	This option can be enabled for alarms that do not require change at any time and are to remain as programmed i.e. Panic Alarm. When this is selected, the Set, Unset and Override options are disabled.
Entry Route Zone	This creates deferred alarms along a specified route while the entry time is active. This is in compliance with BS8418 (the British Standard for remote video reporting centres). Diverting from the entry route during the countdown will result in the alarm being triggered immediately. This allows staff entry without triggering an alarm prior to switching the system to Set mode.
Exit route Zone	This creates deferred alarms along a specified route while the exit time is active. This is in compliance with BS8418 (the British Standard for remote video reporting centres). Diverting from the exit route during the countdown will result in the alarm being triggered immediately. This allows staff to exit without triggering an alarm.
Exit Terminator	This will trigger the exit timer if the system is set. A countdown timer will automatically start when the alarm is activated and ensure the alarm system is not activated by other specified alarm triggers for the Set time i.e. allowing a Guard to exit a building.
Entry Initiator	This will trigger the entry timer if the system is set. A countdown timer will automatically start when the 'primary' alarm trigger i.e. front door, is actioned. This ensures the alarm system is not activated by other specified alarm triggers for the set time
Enable in Unset	Each alarm can be configured to be active when the unit is in a specific operation mode. Enable this for the zone alarm to be active in Unset operation mode.
Enable in Set	Each alarm can be configured to be active when the unit is in a specific operation mode. Enable this for the zone alarm to be active in Set operation mode.
Enable in Override	Each alarm can be configured to be active when the unit is in a specific operation mode. Enable this for the zone alarm to be active in Override operation mode.

Note: *Unset, Set and Override modes can be given more recognisable titles i.e. Day, Night, Weekend via the Schedule menu (Record Settings->Schedule).*

Activity (Green)
 Zone Act (Yellow)
 Alarm in (Blue)
 Refresh (Purple)

Select to open the Alarm->Activity menu
 Select to open the Alarm->Zone Actions menu
 Select to open the Alarm->Inputs menu
 Refreshes the information on the current page

Zone Actions

Note: Greyed menu option will be available if the mode is changed from Console to DVR or Encoder, they are not available in the Console configuration. They are included for reference only.

This menu allows actions to be allocated to individual alarm zones; Primary and Secondary cameras can be allocated to the zone and actions undertaken following alarm activation. This page should be configured in conjunction with the Zone Inputs menu.

Zone Action Configuration

Save

Cam Options

Zone1:Zone 1

Alarm ColourYellow

Primary CameraCamera 25

Create Database Entry☒

Alarm Relay☒

Profile Change☒

Play Audio☐

Alarm Reporting☒

Archive☐

Add Still Image☐

E-Mail Image☐

Protect Alarm Images☐

Goto Preset☐

Email Reporting☐

Alarm Rate Change☐

VMD/Activity Inhibit☐

System Set☐

Enable Buzzer☐

Relay1

Relay Duration5

Alarm Image Snapshot Delay0

Play audio messagemessage01.wav

Switch Main Monitor☐

System Override☐

Preset CameraNone

Preset0

Rem Report

Email

Cam Options

Relays

Refresh

Zone	Select a zone (alarm) to configure.
Alarm Colour	This displays the local alarm text in the selected colour and can be useful in prioritising alarms. Options available are Red, Green, Blue, Yellow, Cyan and Magenta.
Primary Camera	This allows a camera to be assigned as the primary camera associated with the Alarm Zone. The primary camera will be displayed when an alarm in this zone is triggered.
Create Database Entry	An alarm activation will be added to the database. The zone title will be used as part of the entry information.
Alarm Relay	Select to trigger an alarm relay following zone activation. Select the specific relay via the 'Relay' option.
Profile Change	Select to enable the unit to switch from Normal to Event recording following alarm zone activation.
Play Audio	It is possible to play associated audio upon zone alarm activation.

Alarm Reporting	This must be enabled to allow the unit to send an alarm notification to an external destination i.e. an RVRC reporting via NetVu ObserVer.
Archive	Select to ensure the unit automatically downloads alarm images via an FTP connection to an FTP server.
Add Still Image	This will record a still image of the trigger along with the standard recording. This can then be sent on to an external destination.
E-mail Image	If this option is selected, a JPEG will be added to the reporting e-mail (if E-mail Reporting is selected).
Protect alarm Images	Alarm images can automatically be protected from being overwritten.
Goto Preset	It is possible to action a camera to automatically be sent to a preset position when an alarm is triggered.
E-mail Reporting	The unit can send an e-mail when an alarm is detected. For further information refer to 'Network->E-mail'.
Alarm Rate Change	Select to change to the alarm mode recording rate on zone action.
VMD/Activity Inhibit	Select to inhibit (ignore) the VMD/Activity detection feature. for further information refer to 'Alarm Settings->Activity Setup'.
System Set	Select to change to the 'Set' mode recording rate on zone action.
Enable Buzzer	Select to activate the unit's internal buzzer upon alarm receipt.
Relay	Select an onboard or external relay to automatically close on receipt of an alarm.
Relay Duration	Enter (in seconds) how long the relay is to remain closed.
Alarm Image Snapshot Delay	This figure allows a delay to be introduced before an alarm snapshot is taken. This is used when the alarm relates to a PTZ camera which has to travel to a preset position.
Play Audio Message	Following a Zone alarm trigger, a specific audio message can be played.
IMPORTANT: <i>Audio messages must be uploaded to the unit in mono 8k wav format only. The following naming convention must be used: messageXX.wav i.e. message00.wav, message01.wav etc. An FTP client should be used to place the wav files in the following folder: \mdd0\messages folder.</i>	
Switch Main Monitor	Select to display the alarm zone Primary camera on the Main Monitor.
System Override	Select to change to the 'Override' mode recording rate on zone action.
Preset Camera	The preset camera is the camera which will be sent to a designated preset position upon alarm activation.
Preset	Enter the preset position number for the selected camera here, refer to 'Unit Operation-PTZ Program' for more information on establishing camera preset positions.
Cam Options (Yellow)	Select to open the <i>Zone Action Camera Configuration</i> menu.
Rem Report (Red)	Select to open the Network->Remote Reporting menu
E-mail (Green)	Select to open the Network->E-mail menu
Cam Options (Yellow)	Select to open the Alarm->Zone Actions->Zone Action Configuration menu
Relays (Blue)	Select to open the Alarm->Global Actions menu
Refresh (Purple)	Refreshes the information on the current page

Zone Actions Camera - For reference only

Zone Action Configuration

Save

Zone Act

Zone1:Zone 1

Secondary Cameras

1☒2☐3☐4☐

Rem Report

Email

Zone Act

Relays

Refresh

- Zone

Select a zone (alarm) to configure.
- Primary Camera

This allows a camera to be assigned as the primary camera associated with the Alarm Zone. The primary camera will be displayed when an alarm in this zone is triggered.
- Secondary Cameras

This setting gives the facility to assign additional cameras to the zone. These cameras will become part of the alarm sequence shown in the Viewer menus when the alarm zone is triggered.
- Zone Act (Yellow)

Select to open the Alarm->Zone Actions menu
- Relays (Blue)

Select to open the Alarm->Global Actions menu
- Refresh (Purple)

Refreshes the information on the current page

Masked Cam Detection

Note: Greyed menu option will be available if the mode is changed from Console to DVR or Encoder, they are not available in the Console configuration. They are included for reference only.

The unit has the capability to identify if a video input has been covered (by hand, spray paint, etc.) to prevent video images being viewed and recorded. The Camera Masking option identifies normal levels of contrast and uses them as a base line. It then compares these against a user defined minimum contrast level. If the video input goes below this user defined level an event is generated on the unit.

Simple Activation

Camera	On	Dwell	Threshold Contrast
1 Camera 1	<input type="checkbox"/>	0	62
2 Camera 2	<input type="checkbox"/>	0	27
3 Camera 3	<input type="checkbox"/>	0	0
4 Camera 4	<input type="checkbox"/>	0	0

On Camera Masked/Unmasked

Create Database Entry ☐

Refresh

Simple/Zone Activation

Select from 'Simple' or 'Zone' Activation. When 'Zone Activation' is selected, specific zone actions can be initiated on masking/unmasking. Select Zone Activation for further options.

Camera

Displays the camera number and camera title as configured on the Camera Setup page.

On

Enables or disables the feature on the camera.

Dwell

This is the delay the unit will wait before declaring the camera is masked.

Threshold

Defines the threshold the system uses to define that a camera is masked.

Contrast

Defines the contrast threshold the system uses to define that a camera is masked. Different cameras have different characteristics, it will be necessary to adjust this figure to avoid false alarms.

Create Database Entry

Select to add an entry to the database following activation. This option is only available in Simple Activation.

Zone Activation

Cam Masking Configuration

Zone Activated ▼

Save

Camera	On	Dwell	Threshold	Contrast	On Mask	On Clear
1 Camera 1	<input type="checkbox"/> ▼	<input type="text" value="0"/> ▼	<input type="text" value="0"/> ▼	52	Alarm 1 ▼	Alarm 1 ▼
2 Camera 2	<input type="checkbox"/> ▼	<input type="text" value="0"/> ▼	<input type="text" value="0"/> ▼	27	Alarm 1 ▼	Alarm 1 ▼
3 Camera 3	<input type="checkbox"/> ▼	<input type="text" value="0"/> ▼	<input type="text" value="0"/> ▼	0	Alarm 1 ▼	Alarm 1 ▼
4 Camera 4	<input type="checkbox"/> ▼	<input type="text" value="0"/> ▼	<input type="text" value="0"/> ▼	0	Alarm 1 ▼	Alarm 1 ▼

On Mask

Defines the Zone trigger that will be activated when the view is masked.

On Clear

Defines the Zone trigger that will be activated when the view is unmasked.

Alarm Response

Note: Greyed menu option will be available if the mode is changed from Console to DVR or Encoder, they are not available in the Console configuration. They are included for reference only.

This menu enables response configuration following activity trigger on the camera channel.

Activity Response Setup

Save

VMD Pulse Ext (s)

Channel 1 : Camera 25 ☐ Copy to all

Detection type Activity

Activity to trigger Simple Response

Create Database Entry ☒
Profile Change ☒
Alarm Reporting ☐
Alarm 24Hr ☒
Add Still Image ☐
Protect Alarm Images ☐

Alarm Relay ☒
E-Mail Image ☐
Enable in Day ☐
Enable in Night ☐
Enable in Weekend ☐

Refresh

VMD Pulse Extension

The pulse extension extends the trigger period to avoid double triggers of VMD occurring, i.e. If a second incident of VMD is received, after the first alarm is finished but within this period, the unit will not create a new event.

Channel

Select the camera input for configuration from the drop down list.

Detection Type

Each camera input can be configured for either 'VMD' or 'Activity' detection. To assign no detection settings to the camera, select 'None'

Note: Whichever Detection option is selected here, will result in the camera channel being only available for editing in the relevant configuration menu i.e. if Activity is selected; this channel can only be edited for Detection in the Activity Setup menu and not the VMD Configuration menu.

Activity To Trigger

Following Activity activation, select 'Simple Response' to trigger specific chosen responses from the options detailed below. Select 'Zone' to apply the Zone Input rules as configured in the Zone Input menu. Refer to 'Zone Input' for more information.

Note: When Activity to Trigger is set to 'Zone'; the options detailed below are unavailable.

Create Database Entry

When selected, an alarm entry will be added to the Event database.

Profile Change	Select to enable the unit to switch from Normal to Event recording following alarm activation.
Alarm Reporting	This must be enabled for the unit to automatically connect on alarm.
Alarm 24hr	This will ensure that Activity Detection is permanently enabled on this camera channel.
Add Still Image	This will record a still image of the trigger along with the standard recording. This can then be sent on to an external destination.
Protect Alarm Images	Select to automatically protect alarm images from being overwritten.
Alarm Relay	<i>This feature is for future development.</i>
E-mail Image	If this option is selected, a JPEG will be added to the reporting e-mail (if E-mail Reporting is selected).
Enable in Unset	This will enable Activity Detection when the unit is in Unset operation mode.
Enable in Set	This will enable Activity Detection when the unit is in Set operation mode.
Enable in Override	This will enable Activity Detection when the unit is in Override operation mode.
Note:	<i>Unset, Set and Override modes can be given more recognisable titles i.e. Day, Night, Weekend via the Schedule menu (Record Settings->Schedule).</i>
Refresh (Purple)	Refreshes the information on the current page

Activity

Note: Greyed menu option will be available if the mode is changed from Console to DVR or Encoder, they are not available in the Console configuration. They are included for reference only.

The unit supports Activity Detection on all video inputs. It enables cameras to automatically detect any movement/changes within the video scene; this can trigger a number of operations such as FTP alarm notification and an increase in recording rate. A still image of the selected camera will be shown in the Grid Editor screen. To establish an Activity zone, edit the cells displayed across the image. This option should be used in conjunction with the Zone Inputs and Zone Actions menus.



Global Activity Mode

Three options are available for Activity activation (specifically in relation to a PTZ camera).

Selecting 'Active while at Preset 1' will result in Activity mode functioning only when the camera is at preset position 1. Select 'Active while camera not in motion' for Activity mode to function only when the camera is still. Select 'Always Active' for Activity mode to be in constant operation.

Activity Channel

This is a drop down list of the video inputs on the unit, selecting an input will display images from the corresponding video source.

Activity Sensitivity

This option allows the sensitivity setting to be established for the activity grid being configured. There are five settings to choose from: Indoor High, Indoor Low, Outdoor High, Outdoor Low, Very Low.

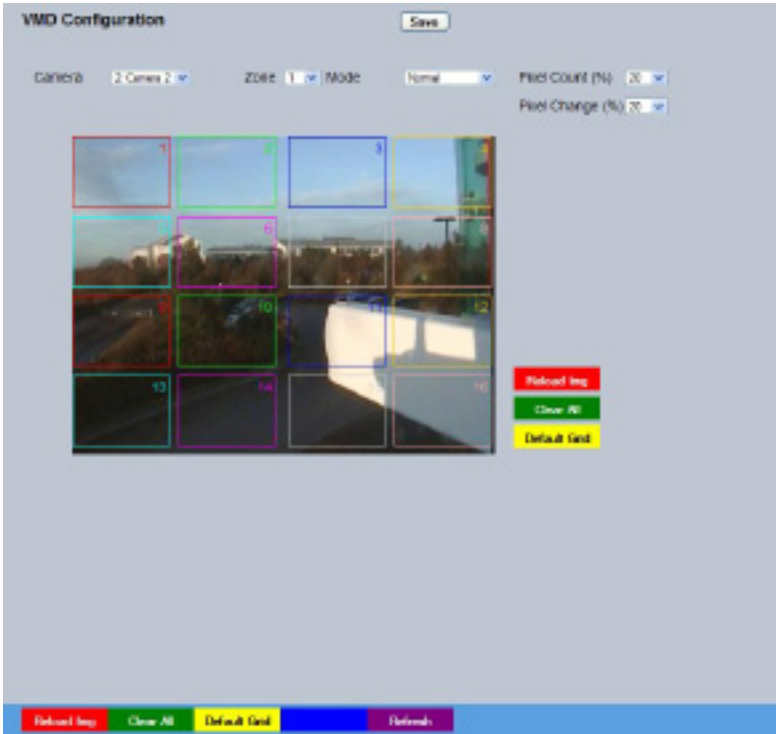
Grid Editor	Use the Grid Editor by placing cells in areas of the camera view where movement will trigger an alarm. To enter cells navigate across the image via the Directional buttons of the I.R Remote Control). If viewing on a local monitor place a cell by pressing the OK button. If viewing via the webpages, use the mouse to navigate across the image, use the left mouse button to place a cell.
Reload Img (Red)	This option will update the still image displayed in the Grid Editor.
Set All (Green)	This option will insert a default square of 16 x 16 cells across the displayed video image.
Clear All (Yellow)	This option will clear all entered cells.

VMD

Note: Greyed menu option will be available if the mode is changed from Console to DVR or Encoder, they are not available in the Console configuration. They are included for reference only.

The unit supports VMD (Video Motion Detection) on all video inputs and allows cameras to automatically detect if there is any movement/changes within the video scene.

Note: Video Motion Detection enables a greater degree of control over detection settings and configuration than the Activity Setup function. Each of the 16 VMD Zones can be directly sized and configured to suit specific requirements. VMD can only be accessed and configured remotely via the webpages.



Camera

This is a drop down list of the video inputs on the unit, selecting one of the inputs will display the corresponding video source. Ensure this corresponds with the selected Channel.

Zone

There are 16 VMD zones within the image that can be individually configured, select the zone from the drop down list.

A selected zone can be re-sized by clicking the mouse button (use the USB mouse if viewing on a local monitor) and then moving and clicking the mouse again. A rectangle will then be displayed based on these two selected points.

Mode	<p>The zone mode identifies when the reference image is taken for triggering VMD. The options are:</p> <p>Normal - The reference image is updated approx every second. This will only allow small changes in the scene without triggering</p> <p>Last trigger - The reference image is only updated when the VMD is triggered and is best used under controlled lighting, i.e. so there are no false triggers due to ambient light changes.</p> <p>Static - The reference image is collected on startup and is never updated. This would be used in 'sterile' areas where there are no changes expected.</p> <p>Zone disabled - This will disable the zone mode.</p>
Pixel Count (%)	This value is set as a percentage and equates to the percentage of pixels in the selected zone that must change for the VMD event to be triggered. The default setting is 20%.
Pixel Change (%)	This setting is a percentage value of the overall change required in the grayscale to be included in the pixel count. The percentage change is defined over the complete range of black to white, a 100% pixel change would be from black to peak white. The default setting is 20%.
Reload Image (Red)	This will update the reference image to the latest view during set up.
Clear All (Green)	Removes all defined zones from the image.
Default Grid (Yellow)	Displays the default 16 zone grid across the whole image.

Global Actions

Note: Greyed menu option will be available if the mode is changed from Console to DVR or Encoder, they are not available in the Console configuration. They are for reference only.

This menu allows configuration of the default relay actions supported on the unit.

The unit supports one onboard relay connection and global relay settings. This global relay can be triggered under specific conditions i.e. on receipt of any alarm or notification of Activity Detection.

Global Actions [Save]

Image Protection Period: 1 days

Alarm Display Mode: No Action

Revert Display Mode: ☐

Alarm Display Alert: ☐

Normally	On	Module
Local Relay 1: Open	Zone: <input type="checkbox"/>	Local
	VMD/Activity: <input type="checkbox"/>	Local
	Camera Fail: <input checked="" type="checkbox"/>	Local
	System Set: <input type="checkbox"/>	Local
	Dial Out Fail: <input type="checkbox"/>	Local
	System Override: <input type="checkbox"/>	Local
	Is Recording: <input type="checkbox"/>	Local
	Camera Masked: <input type="checkbox"/>	Local

Status Alarm In Zone Fail Relay

Image Protection Period

Select a time period (in days) that images associated with an alarm will be protected from deletion.

Alarm Display Mode

When a relay has been triggered, the primary camera associated with that relay can immediately be displayed on the local monitor. Select 'Jump To Primary Camera' from the drop down list to activate this function.

Revert Display Mode

Enable this setting to make the unit return to the view displayed before the alarm activation once the alarm has ended.

Alarm Display Alert

Enable this setting to display an alarm text alert in the colour specified in 'Alarm Colour' in the Zone Actions Menu.

Normally

Select if of the relay contact should normally be Open or Closed.

On

Select to enable detection of the accompanying condition. Options available are; VMD/Activity, Camera Fail, System Set, Dial Out, System Override, Camera Masked, Is Recording, Not Recording and HDD problem.

Contact

Specifies which Relay will be triggered when the associated alarm is received.

Network Settings

The Network Settings menus allow configuration of the unit's network functionality. Key network settings can be established such as 'fixing' the unit's IP address and maximum transmission rate. E-mail, remote reporting on alarm and FTP download can also be configured. Refer to the individual menus for further details.

The Network Settings page allows configuration of the unit's network connections such as the name assigned to the unit and its IP address.

The Live Trans(mission) page enables JPEG and MPEG profiles to be created for transmitting images via a High, Medium or Low quality network connections to any viewing software or to another unit using this one as an IP source.

The Multicast page allows recordings from the unit's camera inputs to be forwarded to a port address; enabling multiple viewers to view live data using a suitable media player without the need to directly connect to the unit.

The E-mail page allows configuration of the E-mail feature. The unit can automatically transmit an e-mail to an SMTP Server following an event i.e. on receipt of an alarm or a camera failure notice.

The Remote Reporting page allows a Remote Video Receiving Centre's (RVRC) configuration details to be entered. The RVRC will then be contacted following a selected event occurring i.e. reported alarm or camera failure.

The Web Cam page configures images from one camera input to be sent to a web server at a preset interval for display on a web page.

The FTP Download page allows data to be archived to a central FTP server. This could be on receipt of an alarm, Activity activation or at a scheduled time to back-up recorded video.

The Firewall page allows the user to block access to the unit via specific network port(s)

The Connections Page lists all current connections to the HD Console

Note: *Greyed menu option will be available if the mode is changed from Console to DVR or Encoder, they are not available in the Console configuration. They are included for reference only.*

Network

Note: Greyed menu option will be available if the mode is changed from Console to DVR or Encoder, they are not available in the Console configuration. They are included for reference only.

This menu allows additional network settings to be configured if required.

Network Setup

Save

Server Name	Camera-25				
IP Address	0.0.0.0				
Sub Net	0.0.0.0				
Gateway	0.0.0.0				
Primary DNS	0.0.0.0				
	Address	Sub Net	Gateway	DNS	
DHCP	172.17.52.46	255.255.252.0	172.17.52.254	Camera-25.dmicros.com	
Max Transmission Rate kbits/sec	0 = No limit				
Tx Image Buffers	3				
Ethernet MTU Bytes	1500				
Max Transmission Timeout ms	250				
PPP Base IP	10.0.0.1				
PPP idle Line Timeout s	180				
PPP Link down Timer mins	2				
Hangup After Alarm	<input checked="" type="checkbox"/>				

This will require a reset

Reset
Rem Report
E-Mail
Refresh

Server Name	This field can be edited to allocate a name to the unit. This would be used if accessing the unit via a Domain Name Server (DNS).
IP Address	This is the IP address allocated to the unit.
Sub Net	This is the subnet of the network were the unit is located.
Gateway	This is the IP address of the default gateway (router).
Primary DNS	This is the primary DNS server IP address for applications utilising domain names.
Max Transmission Rate	Shows the maximum transmission speed for the network type.
Tx Image Buffers	This is used in order to improve the picture delivery over Ethernet when using a slow connection i.e. 256Kbps. A buffer setting of 1, 2 or 3 is available.
Ethernet MTU bytes	This is the maximum transmit unit for the Ethernet packet. The MTU is the largest physical packet size measured in bytes that the network can transmit. By default this figure is set to 1500bytes.
Mx Transmission Timeout ms	This is the time (in milliseconds) the unit will wait to re-send a packet if an acknowledgement is not received.
PPP Base IP	Base address for the PPP port

PPP Idle Line Timeout s	This is the time (in seconds) the unit will wait before disconnecting the PPP (Point to Point Protocol) link if data has not been transmitted or received.
PPP Link Down Timer mins	If for any reason the PPP connection is lost, this is the time (in minutes) before the unit will be forced to drop the PPP connection.
Hangup After Alarm	Select to close the network connection following transmission of alarm data.
Reset (Red)	Select To Reset The Unit
Rem Report (Green)	Select to open the Network->Remote Reporting menu
E-Mail (Blue)	Select to open the Network->E-Mail menu
Refresh (Purple)	Refreshes the information on the current cage

Live Transmissions

Note: Greyed menu option will be available if the mode is changed from Console to DVR or Encoder, they are not available in the Console configuration. They are included for reference only.

The unit transmits live images using JPEG or MPEG formats.

The NetVu Connected remote viewing software will use the settings configured on this page as the defaults for JPEG & MPEG; High, Medium and Low settings.

Filter by	Comp	Res	Size/Rate (kbps/mbps)	PPS	MPEG Type & Quality	I Frame Ratio
High LAN	JPEG	4CIF	25	1/2 Real Time		
	MPEG	4CIF	100	1/4 Real Time	30% 10	10
Medium WAN	JPEG	2CIF	10	1/2 Real Time		
	MPEG	2CIF	200	1/2 Real Time	30% 10	10
Low VLBR	JPEG	2CIF	10	1/2 Real Time		
	MPEG	2CIF	64	1/2 Real Time	30% 10	10

Filter by

The resolutions available for selection will depend on the camera types connected i.e. Standard Resolution or Megapixel Resolution. Note that the Megapixel Resolution option will only be available if a megapixel camera is connected.

IMPORTANT: There are three classifications of IP camera:

1. Standard Resolution - QCIF,CIF,2CIF,4CIF
2. Standard Resolution (VGA) - VGA,SVGA,QVGA,Q2VGA
3. Megapixel - VGA,SVGA,UXGA,QVGA,Q2VGA,XGA,XGA+,SXGA+,QXGA

The classification of each connected camera channel can be viewed via the CamConfig menu (System Settings->Status->About->CamConfig).

High LAN/Medium WAN/Low VLBR This shows the transmission settings configured for a High quality LAN (Local Area Network) connection, Medium quality WAN (Wide Area Network) connection or a Low quality VLBR (Very Low Bit Rate connection).

Comp

Settings can be established for JPEG and MPEG compression.

Res	For MPEG and JPEG transmission, select image resolution settings (4CIF, 2CIF, CIF or QCIF).
Size_rate	For JPEG, the figure entered will be the size of the JPEG transmitted (in Kbytes). For MPEG4 the figure will be the bit rate allocated. A higher rate will provide better quality picture display. JPEG file sizes can be configured in the range of 5-45Kbytes and MPEG bit rates in the range of 45-2500Kbits/second.
PPS	This shows the number of pictures transmitted per second. For JPEG, the actual images transmitted will depend on the bandwidth of the link, increasing the pictures sent per millisecond may introduce time lag if bandwidth is not sufficient. On MPEG transmission, increasing the pictures sent will also reduce the quality of the images (as more images are transmitted for the defined bit rate).
MPEG Type	Select whether transmitted MPEG4 images are sent as RAW data or in GOV (Group of Video) format. RAW mode transmits a single I frame and then a sequence of P frames (until a change in transmission is detected). GOV mode sends I and P frames in a standard format i.e. I to P frame ratio as set by the I Frame Ration option.
MPEG Quality	The Quality of the MPEG data transmission can be set from CBR (Constant Bit Rate) to High 32. A higher quality setting may result in a lower transfer speed.
I Frame Ratio	Select the ration of I Frames recorded between each P Frame.
Note:	<i>An MPEG I-frame is considerably larger than a P-frame. Therefore the higher the IP ratio, the higher the disk space required to store recorded images.</i>
Turbo Prefs (Red)	Select to open the Turbo Mode Profile Overview menu
Refresh (Purple)	Refreshes the information on the current page

Multicast Setup

Note: Greyed menu option will be available if the mode is changed from Console to DVR or Encoder, they are not available in the Console configuration. They are included for reference only.

The Multicast page allows recordings from the unit's camera input to be forwarded to a port address; enabling multiple viewers to view live data using a suitable media player without the need to directly connect to the unit. In multi viewing scenarios, the demands on the unit are significantly reduced; improving overall performance.

This system has been validated using the 'Videolan VLC media player for MS Windows'. The Videolan VLC media player can be downloaded free of charge from:

www.videolan.org/vlc/download-windows.html

Please refer to Appendix E for guidance on configuring the Videolan VLC media player.

Note: Multicast can only used for live viewing, requests for stored images and events will still need to be made via the Viewer menu.

Multicast Setup - Engineering Only
Save

Multicast Address:
Multicast Port:
Multicast Method:

Title	Enable	TTL
1 : Camera 25	<input type="checkbox"/> ↓	<input type="text" value="1"/> ↓
2 : Camera 26	<input type="checkbox"/> ↓	<input type="text" value="1"/> ↓
3 : Camera 27	<input type="checkbox"/> ↓	<input type="text" value="1"/> ↓
4 : Camera 28	<input type="checkbox"/> ↓	<input type="text" value="1"/> ↓

Refresh

Multicast Address

Assign a unique IP address. This address is not assigned to any 'physical' unit. The VLC program will use this address (when configured to do so) as its multicast group and access any broadcast images via the configured port address (see below). If there are multiple units using multicast, each one must have a unique IP address.

Multicast port

Following configuration of the IP address, configure the port address. The address will default to 1234.

Multicast Method	Select the multicast forwarding method. Select from 'SAP' (to use session announcement protocol operation), 'HTTP' (to use cgi control operation) or 'SAP+HTTP' (both methods used simultaneously).
Enable	Tick this option to enable multicast.
TTL (Time to Live)	<p>This option can be configured to limit which users can access the images. Enter one of the following numbers:</p> <ul style="list-style-type: none"> 0 - restricts video to the same host 1 - restricts video to the same subnet 32 - restricts video to the same site 64 - restricts video to the same region 128 - restricts video to the same continent 255 - is unrestricted in scope
Refresh (Purple)	Refreshes the information on the current page

Email

Note: Greyed menu option will be available if the mode is changed from Console to DVR or Encoder, they are not available in the Console configuration. They are included for reference only.

The unit can automatically transmit an email to an SMTP Server under numerous conditions i.e. on start up, on receipt of an alarm, camera failure etc. This allows the unit to be installed in unmanned applications where a Remote Video Response Centre (or Manager etc.) would be notified by email if any of these conditions occur.

Email

Save

Connection Profile

Ethernet

Mail Server Address

Username

Password

Recipient Email

Recipient Display Name

Reply To Email

Reply To Display Name

Sender Email

Sender Display Name

Test Email

Send on Startup

☐

E-Mail Image Res

Thumbnail

Send on Alarms

☐

Send on Camera Fail

☐

Log Email

Send on Activity Event

☐

Send Image

☐

Test Email

Zone Act

Network

Rem Report

Refresh

Connection Profile

It is possible for the e-mail to be transmitted via the Ethernet network or dial up connection (PPP 'Point to Point Protocol'). This setting presumes that a modem has been connected or configured and the unit is connected to a LAN or WAN and allocated a valid IP address.

Mail Server Address

This is the IP address or URL of the SMTP Server that the e-mail will be sent to. The SMTP server will then forward this to the intended recipient.

Username

Enter the login details for the email account used above.

Password

Enter the login details for the email account used above.

Recipient Email

This is the e-mail address of the intended recipient.

Recipient Display Name

This is the addressee name that will be shown in the e-mail name field.

Reply to E-mail

This field must be configured if the recipient is to reply to an e-mail. The unit does not accept incoming emails therefore ensure this is a valid e-mail address.

Reply To Display Name

This is the 'reply to' name that will be shown in the e-mail name field.

Sender E-mail	These optional fields indicate the source of the e-mail notification. If the fields are left blank the unit will use the system name to create a sender name.
Sender Display Name	This is the sender name that will be shown in the e-mail name field.
Send on Startup	Select to send e-mail notification on startup.
Send on Alarms	Select to send e-mail notification on alarm activation.
Send on Camera Fail	Select to send e-mail notification on camera fail.
Send on Activity Event	Select to send e-mail notification on activation of the Activity Detection feature.
Send Image	Select to send accompanying image from supporting primary camera.
E-mail Image Res	Select resolution settings for images sent as 'thumbnail' attachments. Choose from: Thumbnail, LO (low res), MED (medium res) and HI (high res).
Log E-mail	Select to log every e-mail transaction that the unit issues.
Test E-mail (Red)	Select to send a test e-mail to the configured recipient.
Zone Act (Green)	Select to open the Alarm->Zone Actions menu
Network (Yellow)	Select to open the Network->Network menu
Rem Reporting (Blue)	Select to open the Network->Remote Reporting menu
Refresh (Purple)	Refreshes the information on the current page

Remote Reporting

Note: Greyed menu option will be available if the mode is changed from Console to DVR or Encoder, they are not available in the Console configuration. They are included for reference only.

This menu details the configuration requirements for the unit to report to a Remote Video Receiving Centre (RVRC) following alarm activation.

Note: This menu will only be displayed if 'Remote Reporting' is selected in the System Settings->Features menu.

Remote Reporting

Primary hostname	<input type="text"/>	Primary dial profile	<input type="text" value="Ethernet"/>
Secondary hostname	<input type="text"/>	Secondary dial profile	<input type="text" value="Ethernet"/>
Public NAT address	<input type="text"/>		
Video server port	<input type="text" value="80"/>		
Alarm server ref. ID	<input type="text" value="C1LP"/>		
Remote alarm reporting	<input checked="" type="checkbox"/>	Alarm responder port	<input type="text" value="23"/>
Remote camfall reporting	<input checked="" type="checkbox"/>	Dial retry time (secs)	<input type="text" value="30"/>
Remote Startup Reporting	<input checked="" type="checkbox"/>	Dial count	<input type="text" value="20"/>
ARC Ping Enabled	<input type="checkbox"/>		

Zone Act
Network
Email
Refresh

Primary Hostname	This is the IP address or URL of the initial host that the unit will transmit an alarm message to.
Primary Dial Profile	It is possible for the alarm message to be transmitted via the Ethernet network or a dial up connection.
Secondary Hostname	If the unit is unable to contact the primary host, an alternative route can be identified via a secondary host. If there is only one alarm receiving IP address, you must enter the details in both the primary and secondary connection settings.
Secondary Dial Profile	It is possible to select a separate dial profile for the secondary host.
Public (NAT) Address	This is the public IP (or domain name) for a unit connected to the Internet via a NAT Router or Firewall. This field should be left blank if NAT is not used e.g. a private network.
Video Server Port	This field allows the RVRC to connect to the unit through a router that is using port forwarding e.g. if the video server does not appear on port 80 (HTTP), to the external network. Enter the port number used for forwarding here if required.

Alarm Server ref. ID	This is the reference name/ID that will be presented to the RVRC viewing application. It should therefore have some significance to the Operator.
Remote Alarm Reporting	This must be enabled for the unit to automatically connect on alarm.
Remote Cam Fail Reporting	Enabling this option ensures the unit reports camera failure on any of the inputs to the RVRC.
Remote Startup Reporting	This will send an alarm report when the unit starts up. Any system resets will be identified.
ARC Ping Enabled	Should the modem/router at the Alarm Receiving Centre be dormant, the unit will 'Ping' the ARC prior to sending reporting data.
Alarm Responder Port	This specifies the network port number used for reporting to the alarm server. In normal circumstances this should be left at the default value (23).
Dial Retry Time (secs)	If the initial connection attempt fails, the unit will wait for the specified time period (in seconds) before attempting to re-connect.
Dial Count	This identifies the number of times the unit will attempt to connect after a failed attempt. A setting of '0' means no limit and the unit will continue to try and connect until successful.
Zone Act (Green)	Select to open the Alarm->Zone Actions menu
Network (Yellow)	Select to open the Network->Network menu
E-mail (Blue)	Select to open the Network->E-mail menu
Refresh (Purple)	Refreshes the information on the current page

Web Cam

Note: Greyed menu option will be available if the mode is changed from Console to DVR or Encoder, they are not available in the Console configuration. They are included for reference only.

Any of the video inputs on the unit can be made available for transmission to a webserver via a designated webcam server. These images can then be incorporated into a web page and accessed via a standard web browser.

Note: This menu will only be displayed if 'Webcam Support' is selected in the System Settings->Features menu.

Web Camera Configuration [Save]

Server URL: [] Disable ICMP Discovery: ☐

Root Directory: []

Image Directory: []

Image Filename Prefix: []

Username: []

Password: []

Update Interval: 10

Select Camera Input: Not Selected

Webcam Enable: Disabled

Webcam Resolution: High resolution 640x256 (2000 bytes)

Network Ethernet

Server URL	This is the IP address, URL or Domain Name of the WEBCAM Server. Images will be uploaded from the unit to this server at specified time intervals.
Disable ICMP Discovery	When enabled, the unit will not attempt to 'Ping' the configured webserver but will begin immediate data transfer.
Root Directory	This is the main/root directory on the webcam server where the image directory will be located.
Image Directory	This directory will be created when the initial image is uploaded to the webcam server, it is the directory where all images will be saved on the server.
Image Filename Prefix	This is an identifier for images sent from the unit and will be stored as a prefix to the file name.
Username	If it is necessary to use an authentication process to access the webcam server, enter the relevant username here.

Password	If it is necessary to use an authentication process to access the webcam server, enter the relevant password here.
Update Interval	This is the minimum update interval between each image transmitted from the unit.
Select Camera Input	This allows individual video inputs to be enabled for upload to the webcam server.
Webcam Enable	The Web Cam function can be: 'Always Enabled', 'Enabled when system SET', 'Enabled when system UNSET' or 'Disabled'.
Webcam Resolution	Select a High, Medium or Low webcam resolution settings to best match the monitor settings of the operator receiving the images.

FTP Download

Note: Greyed menu option will be available if the mode is changed from Console to DVR or Encoder, they are not available in the Console configuration. They are included for reference only.

The unit can archive images to a central FTP (File Transfer Protocol) server. This could be on receipt of an alarm, activation of the Activity Detection or at a scheduled time to backup recorded video. Using FTP in a multi-unit application ensures that all files are stored in one central location for each of the units, offering efficient file management and easy review capabilities.

FTP Server IP URL or name	This is the IP address, URL or name of the FTP server the unit will connect to for FTP image download purposes.
FTP Control Port	The default port for FTP use is port 21. If this port has already been allocated on the network, it is possible to identify and allocate an alternative port.
Status Server Port Default	The default port for the Server Status function is port 23, if this port has already been allocated on the network, it is possible to identify and allocate an alternative port number.
FTP Root Drive and Directory	This is the directory where the images are to be stored, it is recommended that a name associated with the unit be used for ease of retrieval.
Username	If it is necessary to use an authentication process to access the FTP server, enter the relevant username here.
Password	If it is necessary to use an authentication process to access the FTP server, enter the relevant password here.

Download options	Select one of the following options from the drop down menu: On Connection This will automatically start the Archive download when the unit detects the archive destination is present. Scheduled It is possible to force the unit to archive images at a scheduled time, enter a time to activate this function each day. Polled This will set the unit to activate archive download at regular intervals, the time is in minutes and is the period between the end of one archive download and the start of the next. Manual only The archive process will only commence when the user initiates the action.
Schedule time hh mm	If 'Scheduled' has been selected in Download Options, enter a time for the download to take place each day.
Poll time Minutes	If 'Polled' has been selected in Download Options, enter the number of minutes which will elapse between the conclusion of one archive download and the start of the next.
Watermark each partition	This enables a watermark to be generated and stored in a text file downloaded with the video to the FTP server (for each image partition). This watermark is logged in the log file.
Clear video protection after download	This automatically clears the image protection from successfully downloaded images.
Data Drive Download Options	
D/L data folder	Tick to enable the local download data folder detailed below
D/L user defined folder	Tick to enable the local download data folder detailed below
Delete content after D/L	Tick to delete the remote content once it has been downloaded to a local drive.

Firewall

This page allows configuration of the on-board firewall. The top ports are pre-configured with typical settings that can be edited, there are user defined ports available at the bottom of the list. Preconfigured ports can be disabled by unchecking the 'open' box.

General/Corporate Network Firewall Save

The firewall is currently not in use

Enable ping response ☒ ⓘ

Service Name	Port Start	Port End	Type	Open
FTP	21	21	TCP	<input checked="" type="checkbox"/>
Telnet	23	23	TCP	<input checked="" type="checkbox"/>
Web Server	80	80	TCP	<input checked="" type="checkbox"/>
SNTP	123	123	UDP	<input checked="" type="checkbox"/>
SNMP	161	162	UDP	<input checked="" type="checkbox"/>
Web Server [HTTPS]	443	443	TCP	<input checked="" type="checkbox"/>
Telemetry (PTZ)	1025	1025	UDP	<input checked="" type="checkbox"/>
Multicast (Cameras)	2000	2063	UDP	<input checked="" type="checkbox"/>
Audio	2074	2074	UDP	<input checked="" type="checkbox"/>
XML Alarms	4000	4000	TCP	<input checked="" type="checkbox"/>
External ANPR	4001	4016	TCP	<input checked="" type="checkbox"/>
Emergency Messaging	5800	5800	TCP	<input checked="" type="checkbox"/>
Alert Messaging	5801	5801	TCP	<input checked="" type="checkbox"/>
Network Text	7000	7031	TCP	<input checked="" type="checkbox"/>
Web Server [Secondary]	8080	8080	TCP	<input checked="" type="checkbox"/>
Multicast SAP Announce	9875	9875	UDP	<input checked="" type="checkbox"/>
Remote Codec [Server]	39000	39000	UDP	<input checked="" type="checkbox"/>
Camera Proxy	40000	40031	TCP	<input checked="" type="checkbox"/>
Remote Codec [Camera]	50000	50000	TCP	<input checked="" type="checkbox"/>
Remote Codec [Camera]	50002	50002	TCP	<input checked="" type="checkbox"/>
User Defined	0	0	TCP	<input type="checkbox"/>
User Defined	0	0	TCP	<input type="checkbox"/>
User Defined	0	0	TCP	<input type="checkbox"/>
User Defined	0	0	TCP	<input type="checkbox"/>

Refresh

Enable PING response

By default this option is enabled and allows the unit to be pinged. Disabling this option will make the unit less visible on the network

Table Entry

Up to 32 Configuration settings may be entered.

Service Name

Details the assigned name of the service using the opened port on the firewall.

Port Start

Displays the start of the port range used by the service

Port End

Displays the end of the port range used by the service

Note: To open a single port, enter the same number in the Port Start and Port End boxes.

Type

Displays the type of port to open, select from TCP or UDP.

Open

Displays if the port is open or not.

Refresh (Purple)

Refreshes the current page

Connections

This page shows the IP addresses of users connected to this unit. It is for information only and cannot be edited or configured.

Connections	
IP Address 1	0.0.0.0
IP Address 2	0.0.0.0
IP Address 3	0.0.0.0
IP Address 4	0.0.0.0

Refresh

Features & Text

Note: *Greyed menu option will be available if the mode is changed from Console to DVR or Encoder, they are not available in the Console configuration. They are included for reference only.*

The Features and Text menus allow activation of the units analytics and third party IP camera features plus configuration of the unit's text in image and keywords functionality. Refer to the individual menus for further details.

The Features menu allows activation of the units analytics and third party IP camera features. . Please call Dedicated Micros on + 44 (0) 845 600 9500 for further information.

The Text In Image page allows the unit to integrate text data with recorded images i.e. a cash register with a camera positioned at the point of sale.

The Keyword page can be used in conjunction with the Text in Image function. Keywords can be entered, which when detected, will trigger an alarm. Up to 30 keywords can be created.

Event Search

Note: Greyed menu option will be available if the mode is changed from Console to DVR or Encoder, they are not available in the Console configuration. They are included for reference only.

The Event Search menu allows recorded event images to be quickly searched for and reviewed. The Search criteria can be limited to a specific date/time and/or individual cameras.

Note: Event Search will only be available when the 'Enable Event Search Page' option is enabled via the System Settings->Features menu.

Event Viewer

Events Page

12

Start Date

08/01/10

Start Time

12 : 52 PM

End Date

08/01/10

End Time

01 : 52 PM

Cameras

1-4,6-8

Search

Note: Stills will only be available for videos recorded as jpeg

Search

Refresh

Event/Page	Select the amount of event Still images (thumbnail size) to be displayed per results page.
Start Date	Enter a Start Date for the Event Search.
Start Time	Enter a Start Time for the Event Search.
End Date	Enter an End Date for the Event Search.
End Time	Enter an End Time for the Event Search.
Cameras	Select the camera channel(s) to be included in the Event Search. A range of cameras can be selected by entering a hyphen between the first and last required camera i.e. 1-8. A selection of individual cameras can be chosen by entering a comma between each camera i.e. 1,3,5,8. Events captured by cameras not in this selection will be ignored.
Search (Red)	When the Event Search parameters have been entered, select 'Search'.
Refresh (Purple)	Refreshes the information on the current page

Event Search Results

After selecting 'Search' (Red), a still image of each captured event (within the chosen search criteria) will be displayed. It may be necessary to scroll through the results pages to view all events. If the number of events exceeds the events displayed per page (configured in Event/Page).



Click on the thumbnail image to playback an event. That event will then playback in the window at the top of the menu.

Note: To zoom into the event currently in playback mode, right click it with the mouse. The 'Set Zoom Level' option will be displayed. The image can be set to display at up to 800% of its recorded size. Note that the view window will not increase in size, use the scroll bars to navigate the enlarged image.

IMPORTANT: Still event images will only be available for video recorded in JPEG mode (MPEG4 thumbnail Stills will appear 'blank'); however event data recorded in either JPEG or MPEG4 mode can be replayed.

Refresh (Purple)

Refreshes the information on the current page

Operating the Viewer

Navigation is via a colour coded softkey system. The colour bar provides an intuitive approach to operator and installer use.

The function of the keys will change according to whether the unit is in Live or Playback mode. Below and overleaf are described the available Viewer menu pages.

IMPORTANT: *The Viewer menus will only be available when Operational Mode is set to 'Console' in the Features->System menu (System Settings->Features->System)*

Connection Profile

The connection to the Viewer menus can be optimised depending on whether it is via a high quality LAN (Local Area Network) or medium quality WAN (Wide Area Network) connection.

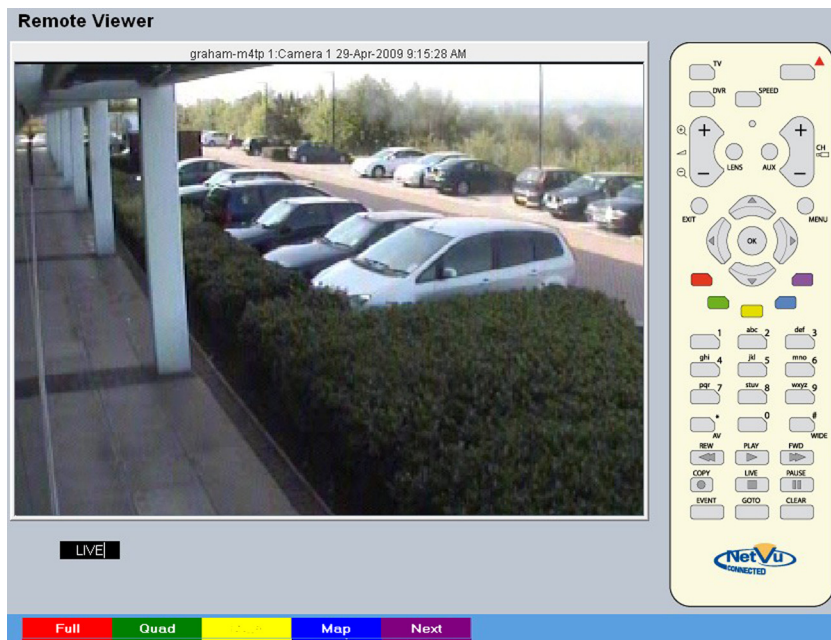
The optimised / default settings used will be those entered within the Viewer Defaults menu (Configuration Menu:Console Settings->Viewer Defaults).

The 'Connection profile' option menu is displayed in the top right of the Viewer menu. Select from 'LAN' or 'WAN'.

Note: *This option is only available when viewing remotely via an IP connection.*

View Control

The View Control page allows the connected video input to be displayed full screen



Red	Full	Show currently selected camera full screen.
Green	Quad	Displays four images on-screen, putting the currently selected camera in the top left segment of the four, and will increment all cameras by one if pressed again i.e. if cam 1 is shown top left, cam 2 top right etc. then the views will increment to cam 2 top left, cam 3 top right etc.

Note: When a camera button is pressed to select a new camera, the new selection will be displayed in the top left hand corner of the display. The next three connected cameras will be displayed in the following three positions.

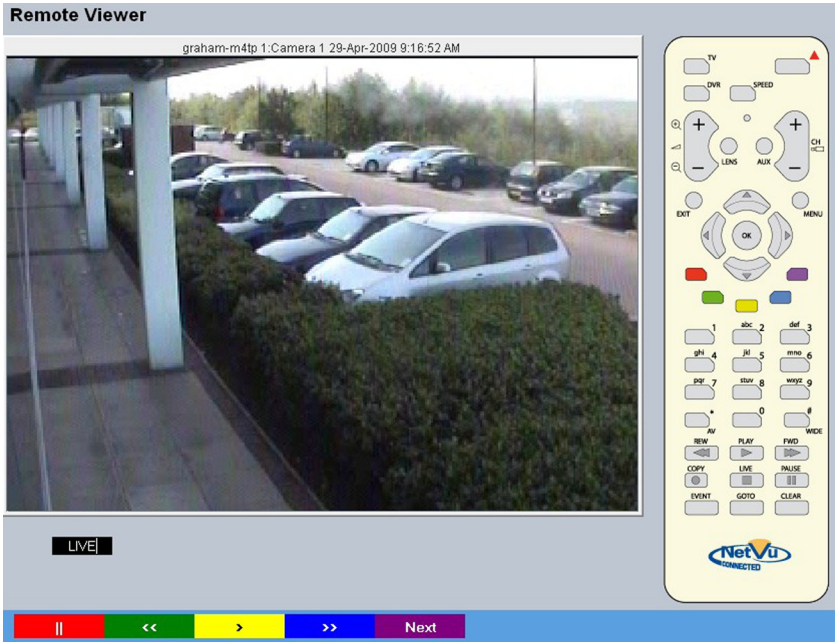
Blue	Map	Displays either the default camera selection map or a specific site map (if one has been configured) with 'hotspots' showing camera locations. A camera can be viewed by selecting the corresponding hotspot.
------	-----	---

Purple	Next	Opens the next page of the Viewer menu.
--------	------	---

Note: For information on creating Camera Selection maps. Refer to the Display Setting->Map Config' section for further information.

Video Control

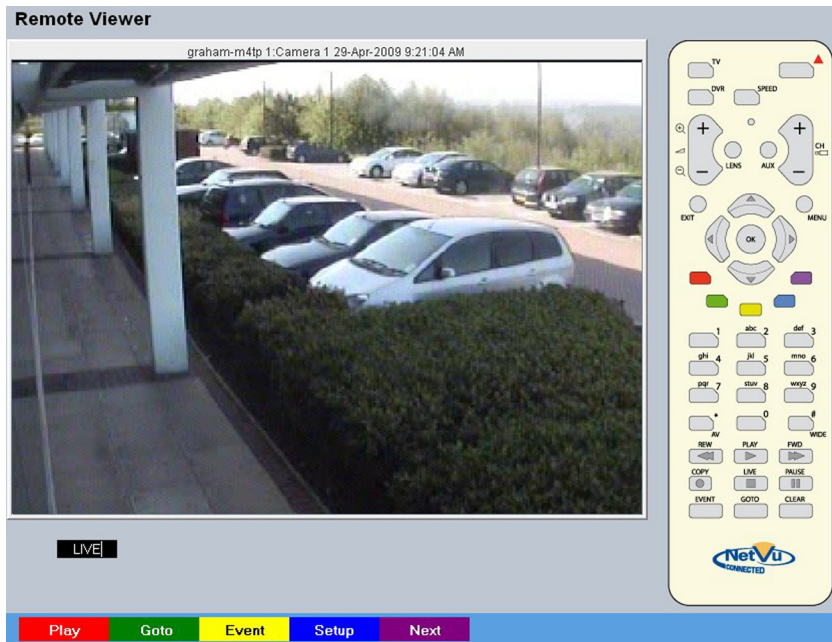
The Video Control page offers video playback functions i.e. play, pause, rewind and fast forward.



Red		Freezes current video display.
Green	<<	Rewinds current video.
Yellow	>	Plays from current position.
Blue	>>	Fast forwards video up to current recording position.
Purple	Next	Opens the next page of the Viewer menu.

Selection Page

The Selection page allows access to various image and event playback functions.



Red	Play	Switches the selected camera(s) shown on screen into Play mode.
Green	Goto	Opens the GoTo menu.
Yellow	Event	Displays the Events menu.
Blue	Menu/Setup*	Opens the Configuration menu pages.
IMPORTANT: Selecting this option will exit the Viewer menus. This will be logged in the User Activity Log as the current user terminating the session, refer to 'Appendix C' for further information regarding the User Activity Log.		
Purple	Next	Opens the next page of the Viewer menu.
* 'Menu' will be displayed in the local viewer, 'Setup' will be displayed in the remote viewer		

PTZ Program Option

The Program page allows preset settings for PTZ cameras to be established and an 'Origin' base position established for a camera.

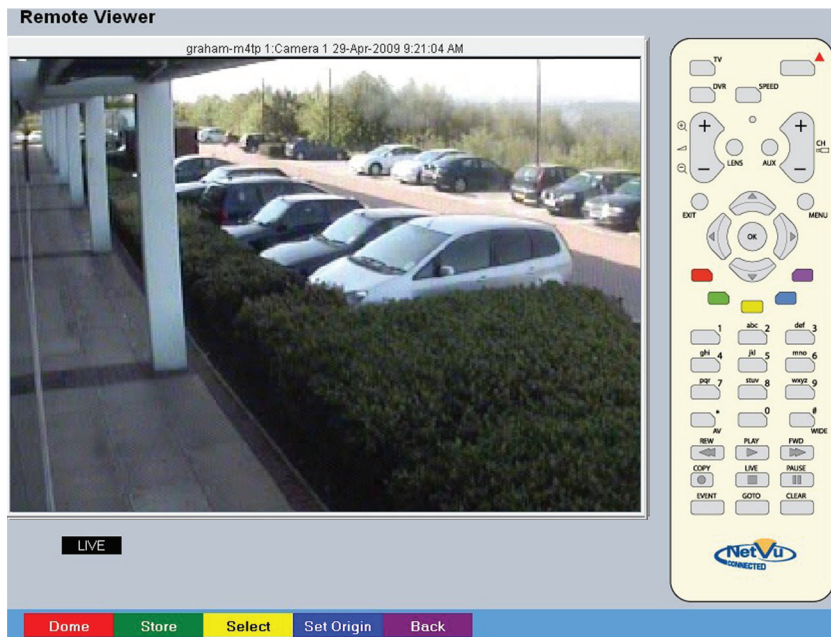
Note: This page will not be available for all cameras.



Red	Preset	If Preset positions have been established for the PTZ camera, select the Preset option and enter a preset number. Refer to the 'Presets' menu page for further details on establishing preset positions.
Yellow	Patrol	If Patrols have been established for the camera, select the Patrol option and enter a number. Refer to the 'Patrols' menu page for further details on establishing Patrols.
Blue	Prog	Opens the 'Dome Menu Option' page.
Purple	Next	Opens the next page of the Viewer menu.

Program Page

The Program Menu page allows the PTZ configuration on the currently selected Telemetry camera to be accessed and configured (if such menus are available).



Red	Dome	Select to display the Dome Menu page.
Green	Store	Use to save the current view as a Preset for this camera. To re-send the camera to this position, select the camera, then press Next -> Preset -> (preset number).

Note: When entering a new preset, any previous preset assigned to that number (for the same camera) will be overwritten.

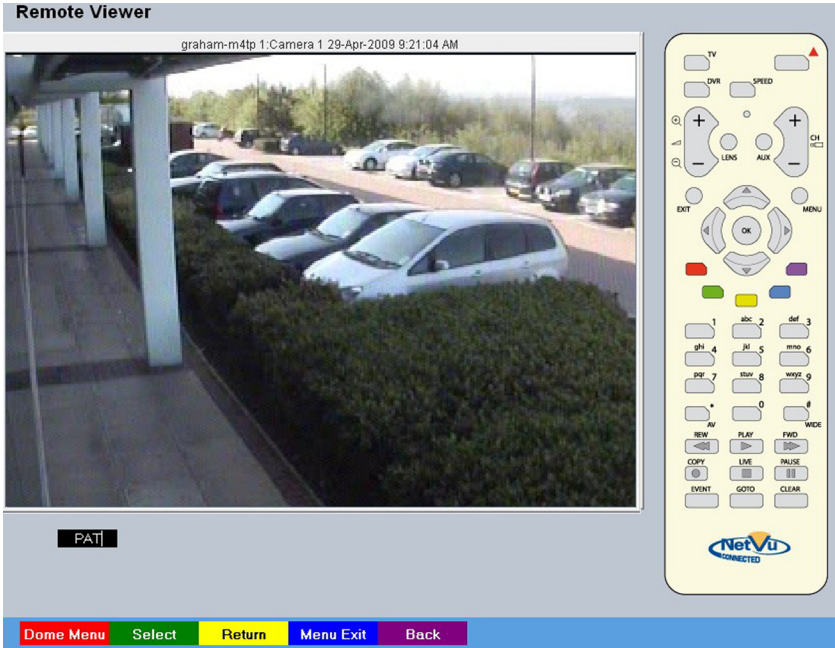
Yellow	Select	This option will send the camera to the stored 'Preset1' position.
Blue	Set Origin	The Origin option allows a base position to be established for the Oracle dome camera. The camera will register this position as zero degrees. Any command that sends the camera to a coordinate will use this origin as its starting point.

Note: This option is only available for DM Oracle dome cameras.

Purple	Back	Return to the 'PTZ Program Option' page.
--------	------	--

Dome Menu Option

The Dome Menu page allows camera specific menus imbedded on the currently viewed Telemetry camera to be accessed and configured (if such menus are available).



Red	Dome Menu	Select to view camera specific sub-menus embedded on the Telemetry camera (if applicable). The camera specific menus will be overlaid across the screen.
Green	Select	This option enables sub-menu content selection (dependent on the protocol selected). Please refer to the specific camera documentation for further guidance.
Yellow	Return	This option enables sub-menus to be exited (dependent on the protocol selected). Please refer to the specific camera documentation for further guidance.
Blue	Menu Exit	This option will fully exit any embedded camera sub-menus currently being viewed.
Purple	Back	Return to the previous page of the Viewer menu.

Point&go





Point&go enables an Oracle Dome camera to be controlled directly via the cursor. Select anywhere on the displayed image and the Oracle Dome camera will centre on that point i.e. to pan the camera to the right, click on the right hand side of the displayed image. The Oracle dome will pan and set the clicked point as the centre of the new image.

Note: To use **Point&go**, PTZ mode must be selected (if available).

Note: Oracle Dome cameras can also be controlled using the Keyboard joystick.

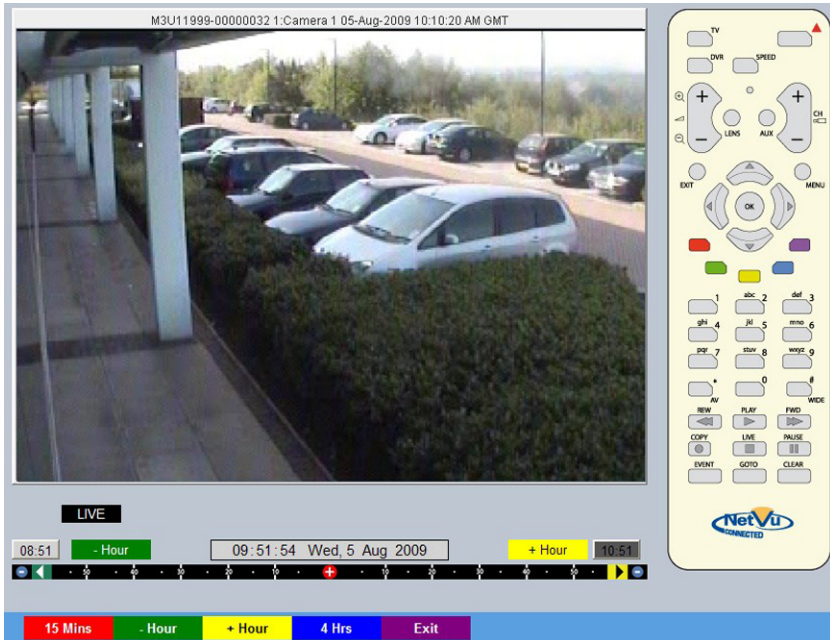
Camera Symbols

To access the modes featured below, click on the camera symbols when they are shown in the top right corner of the display. The modes available will depend on the camera type being accessed.

Symbol	Mode/Camera Type	Options Available
	Fixed Camera eZoom	Use this option to zoom into areas of the image. The camera itself is not being directly controlled. Use the + and - buttons illustrated below to zoom in / out. The Keyboard Joystick can be used to navigate the image and also to zoom in/out.
	ePTZ mode	Use this option to zoom into areas of the image. The camera itself is not being directly controlled. Use the cursor to select a point on the image. Use the + and - symbols illustrated below to zoom in / out.
	PTZ Mode	Use this option to directly control a DM Oracle Dome camera via the Point&go feature. Use the + and - buttons illustrated below to zoom the camera in / out. The Keyboard joystick can also be used to manoeuvre the camera.
	Zoom IN / OUT	When displayed, use these buttons to zoom in / out of the displayed image or by controlling the camera (depending on mode selected).

Timeline Navigation

The Timeline Navigation page and the accompanying Video Timeline feature allows quick and easy investigation of recorded video data. The Goto button opens the initial Timeline Navigation page.



Softkeys

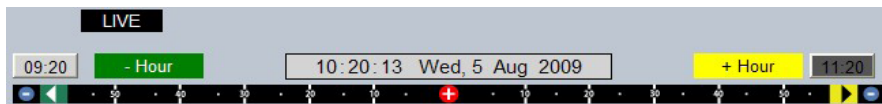
The coloured softkey options will change depending on the scale used to review the recorded images. In the above example:

- Selecting the 15 Mins (Red) button will change the softkey options to 15 minute segments i.e. the user can progress 15 mins from/prior the current playback time.
- Selecting the -Hour button (Green) will progress the video to a point exactly one hour prior to the time shown in the date/time display.
- Selecting the +Hour button (Yellow) will progress the video to a point exactly one hour in advance of the time shown in the date/time display.
- Selecting the 4Hrs (Blue) button will change the softkey options to four hour segments i.e. the user can progress four hours from/prior the current playback time.
- Selecting the Exit (Purple) button will always exit the Timeline Navigation menu.

Note: Depending on the scale used to review the video i.e. Seconds, Minutes, Hours, or Days; the above softkey options will differ, however the same intuitive principles remain.

Video Timeline

The Video Timeline allows intuitive, rapid navigation within recorded video. To aid navigation, the timeline can be set to display periods ranging from 15 seconds to four weeks. The timeline can be clicked anywhere in the scale to instantly play recorded images from that point.



Date/Time Display (Grey)

Shows the currently selected date/time.

Note: The Date/Time Display shows the last time selected via the timeline. During playback, the Date/Time Display remains static while the 'running' time is shown in the bottom left corner of the playback image.

Timeline



The timeline allows navigation from the time and date currently shown in the Date/Time Display window. The scale changes to correspond to the time period chosen for investigation i.e. if a scale of one hour is selected it will be possible to move up to one hour prior, or one hour in advance of the displayed time (unless that selected time has not been recorded yet). For example, with a scale of one hour, click '10' on the left side of the timeline to play video from 10 minutes prior to the Date/Time Display. To advance in time, click on the right side of the timeline.

Time Scale Options

- 15 seconds
- 1 minute
- 15 minutes
- 1 hour
- 4 hours
- 1 day
- 1 week
- 4 week

Change Scale

Utilise the buttons shown below to change the scale.

Note: The coloured softkey buttons can also be used to alter the scale, refer to “Softkey Guidance” for further details).

Decrease Scale button (Red)



Decreases the scale of the displayed timeline by one step i.e. if the scale is currently one hour, selecting this button will reduce it to 15 minutes, selecting it again will reduce it to one minute etc.

Increase Scale button (Blue)



Increases the scale of the timeline by one step i.e. if the scale is currently one hour, selecting this button will increase it to four hours, selecting it again will increase it to one day etc.

Left Navigation Arrow (Green)



Selecting the left navigation arrow will play recorded images from the maximum prior time available via the current timeline i.e. if a one hour time scale is displayed, selecting the Left Navigation Arrow will play video from one hour prior. This can also be selected via the Green softkey button.

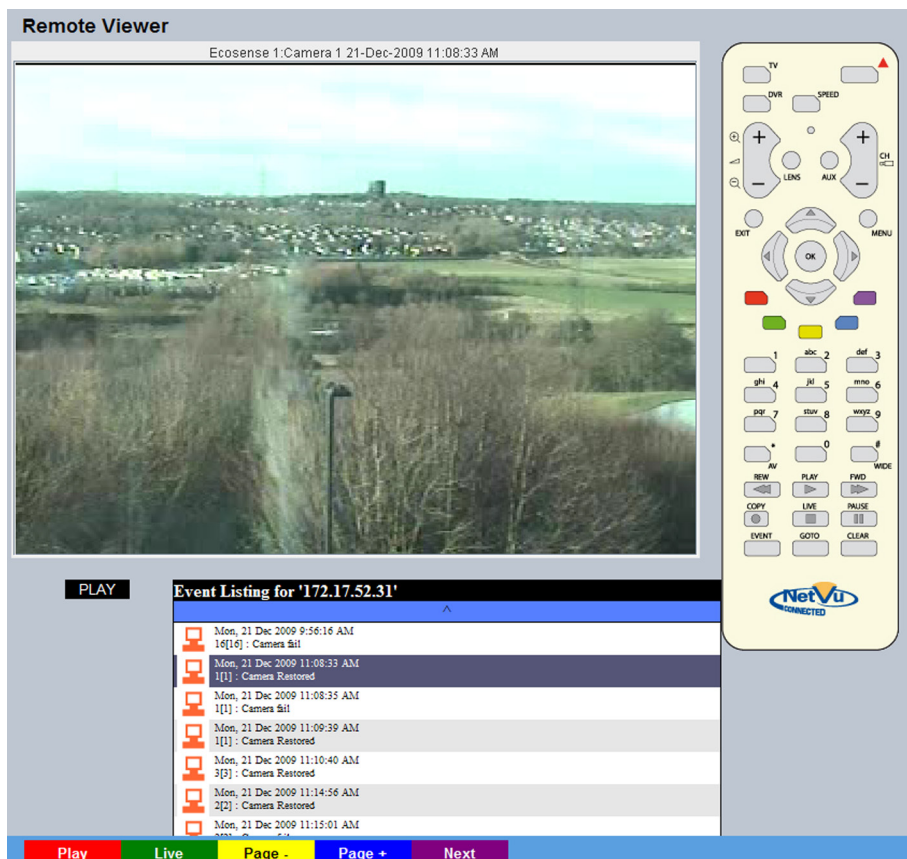
Right Navigation Arrow (Yellow)



Selecting the right navigation arrow will play recorded images from the maximum future time available via the current timeline i.e. if a one hour time scale is displayed, selecting the Right Navigation Arrow will play video from one hour in advance. This can also be selected via the Yellow softkey button.

Event List

Alarms and activity detection, plus system Events i.e. camera fails, are tagged and stored in the Event List. Each Event is labelled with an event type (alarm, activity or system) and its time and date. To view any additional pages of Event data, use the Yellow/Blue Softkeys Highlight a chosen event with the mouse to playback.




Red	Play	Select to playback the highlighted event.
Green	Live	Select to view live images from the currently selected camera.
Yellow	Page -	Select to display the previous page of Event data.
Blue	Page +	Select to display the next page of Event data.
Purple	Next	Select to open the Event Copy and Search menu.

Event Copy and Search Menu

The Event Copy and Search menu allows events to be sent to the Copy menu via the Copy Option. All events currently held within the 'Copy' menu can be deleted via the 'Clear All' option. The 'Filter option' allows access to the 'Filter Search' menu.

Remote Viewer

3GDemo 16:Analogue 7 23-Dec-2009 3:19:52 PM



PLAY

Event Listing for '172.17.36.29'

	Wed, 23 Dec 2009 15:17:55 UTC 4[4] : Zone 4
	Wed, 23 Dec 2009 15:18:05 UTC 8[8] : VLD Zone 1
	Wed, 23 Dec 2009 15:18:31 UTC 4[4] : Activity
	Wed, 23 Dec 2009 15:18:31 UTC 4[4] : Zone 4
	Wed, 23 Dec 2009 15:18:32 UTC 5[5] : Activity
	Wed, 23 Dec 2009 15:18:32 UTC 14[14] : Activity
	Wed, 23 Dec 2009 15:19:38 UTC 4[4] : Activity

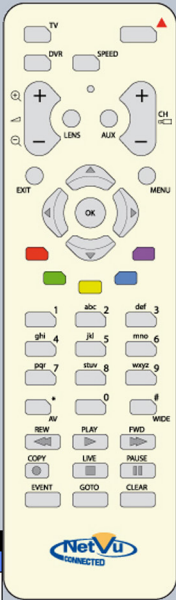
Copy

Clear All

Filter

Activity

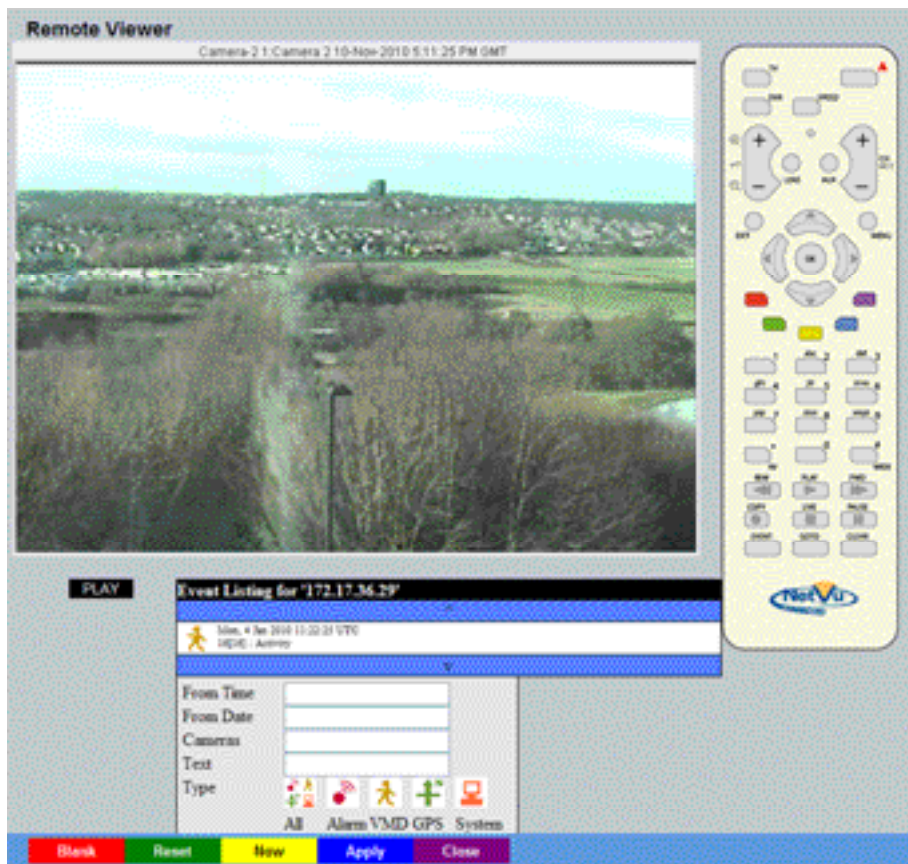
Next



Red	Copy	Select to add the currently highlighted event to the Copy menu.
Green	Clear All	Select to clear ALL events from the copy menu.
Note: Single events can be deleted via the Copy menu.		
Yellow	Filter	Select to display the Filter Search menu, refer to; Operating The Viewer->Filter Search for further guidance.
Blue	Activity	Select to open the Activity Search menu, refer to; Operating The Viewer->Activity Search for further guidance.
Purple	Next	Opens the Play menu for the currently selected camera.

Filter Search Menu

When searching a large number of stored events, the Filter Search menu allows events to be filtered by time, camera channel and category.



Filter Search Box

From Time	15:27:57
From Date	23/12/2009
Cameras	1-16
Text	
Type	<input checked="" type="checkbox"/> All <input type="checkbox"/> Alarm <input type="checkbox"/> VMD <input type="checkbox"/> GPS <input type="checkbox"/> System

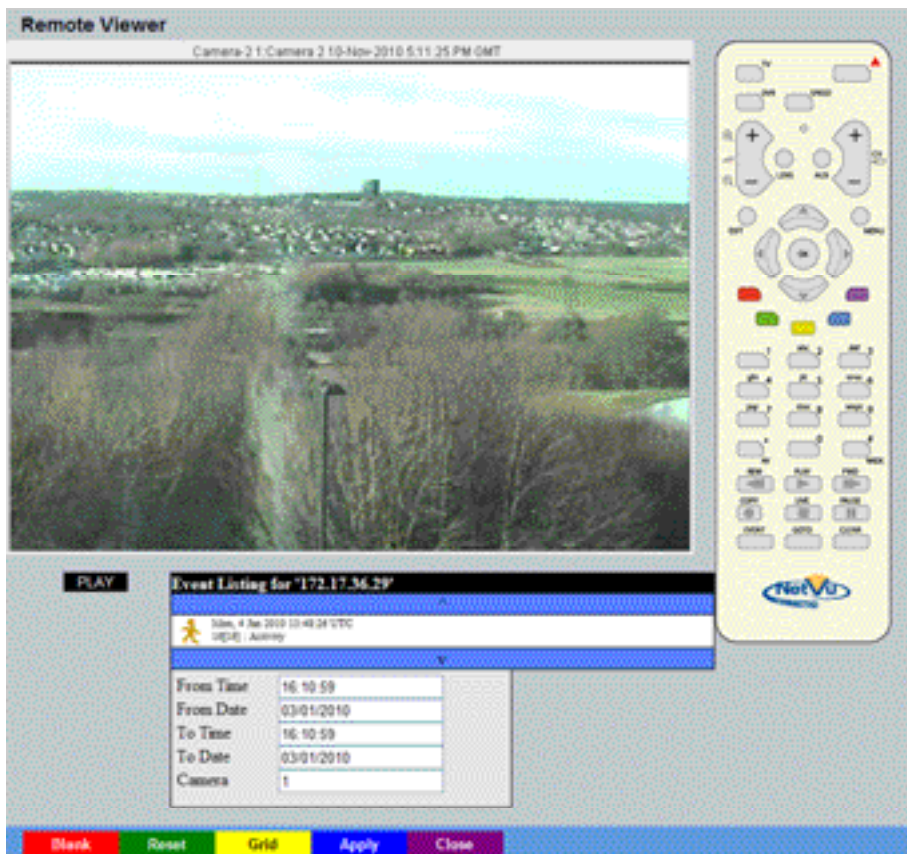
From Time Select a start time for the Event filter. Events prior to this time will be ignored.

From Date Select a start date for the Event filter. Events prior to this date will be ignored.

	Cameras	Select which cameras are to be included within the Event search. A range of cameras can be selected by entering a hyphen between the first and last required camera i.e. 1-8. A selection of individual cameras can be chosen by entering a comma between each camera i.e. 1,3,5,8. Events captured by other cameras will be ignored.
	Text	If searching for text in image events, enter the required text here.
	Type	The event search can be filtered to include all, or specific event types only. The event types are: Alarm, VMD, GPS and System. Each type is assigned a specific symbol, these symbols accompany each listed event for easy recognition.
Red	Blank	Select to remove all data currently displayed in the Filter Search Box.
Green	Reset	Select to reset the Filter Search box. The current Time/Date will be displayed plus all available cameras.
Yellow	Now	Select to enter the current Time/Date. Any additional displayed search criteria will remain.
Blue	Apply	Select to apply any changes made to the Filter Search box.
Purple	Close	Select to return to the Event Copy and Search menu.

Activity Search Menu

The Activity Search menu allows the search criteria to be further narrowed to only include events which have occurred within specific segments of the camera view. Firstly, enter a start/end Time and Date, then select a camera channel. Use the Grid option to select a specific segment of the camera view.

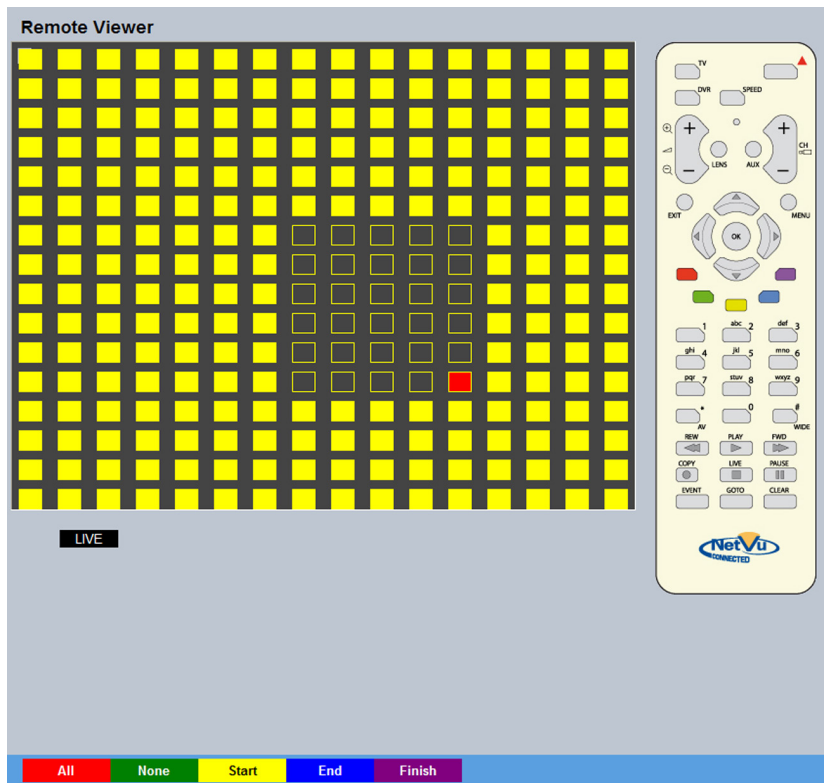


- | | |
|-----------|---|
| From Time | Select a start time for the Activity filter. Events prior to this time will be ignored. |
| From Date | Select a start date for the Activity filter. Events prior to this date will be ignored. |
| To Time | Select an end time for the Activity filter. Events after this time will be ignored. |
| To Date | Select a end date for the Activity filter. Events after this date will be ignored |
| Cameras | Select which camera to include within the Activity search. A range of cameras can be selected by entering a hyphen between the first and last required camera i.e. 1-8. A selection of individual cameras can be chosen by entering a comma between each camera i.e. 1,3,5,8. Events captured by other cameras will be ignored. |

Red	Blank	Select to remove all data currently displayed in the Filter Search Box.
Green	Reset	Select to reset the Filter Search box. The current Time/Date will be displayed plus all available cameras.
Yellow	Grid	Select to open the Grid menu.
Blue	Apply	Select to apply any change made to the Filter Search box.
Purple	Close	Select to return to the Event Copy and Search menu.

Activity Grid Menu

The Activity Grid menu allows the event search criteria to be further narrowed to only display events which have occurred within a segment of the camera view. A grid will be displayed across the camera image. Using the options outlined below, the grid can be configured to create activity zones within the image. Only events which have occurred within these zones will then be displayed in the Activity Search menu for the chosen camera channel.



Red	All	This option will display a default rectangle of 18x16 cells across the video image.
Green	None	This option will delete all cells from the displayed video image.
Yellow	Start	Highlight a cell and select Start (Yellow). This will mark the start point of the area NOT to be included in the activity zone.
Blue	End	Highlight a cell and select End (Blue). This will mark the end point of the area NOT to be included in the activity zone.

A zone can also be created directly via the mouse. Simply click on a cell and then on a separate cell. An area NOT to be included in the Activity zone will be created linking these points.

IMPORTANT: *The area (cells) highlighted yellow constitutes the activity detection zone. Any activity events occurring within the area created using the Start and End points will be ignored.*

Note: *Multiple zones can be created within the same camera view.*

Purple

Finish

Select to return to the Activity Search menu.

Copy Menu

Images and events can be copied to a USB Media for remote reviewing away from the unit (for evidential or monitoring purposes). The Copy Menu can be accessed via the 'Archive' (Yellow) button on the Archive Selection page.

Copy Menu

Start	Finish	Size	Protect (Days)	Cameras
12:35:34 pm 03/12/2010	12:38:34 pm 03/12/2010	0 MB	0	1-4
12:25:34 pm 03/12/2010	13:28:34 pm 03/12/2010	0 MB	25	2
12:36:40 pm 03/12/2010	13:48:40 pm 03/12/2010	0 MB	0	1

Archive media: ☒ USB ☐ Include viewer application: ☐ Eject: ☒

Media space overview: 0 MB

Legend:

Used

Required

Free

STATUS: Please insert a USB memory device

PROGRESS: 0%

Full
Quad
Map
Next

The Copy menu will display the Archive periods added to the Copy Event List. The Start and Finish date/times will be shown along with the estimated size of the download.

- | | |
|----------------------------|--|
| Archive Media | Select the media device (USB) for archive purposes. |
| Include Viewer Application | Select whether the application required to view archived data is included in the download. |
| Eject | N/A |
| Used (Blue) | Displays the space (as a percentage) already used on the chosen media device. |
| Required (Green) | Displays the space (as a percentage) required to download the selected archive(s). |
| Free (White) | Displays the space (as a percentage) that will remain following the download. |
| Status | Displays messages relevant to the archive process i.e. 'Archive In Progress'. |
| Progress | Displays the progress of the current archive (as a percentage of completion). |

To Copy Events/Images to a USB Device

1. Insert a USB Device into the USB port on the front of the unit.
2. Select USB from the Archive Media checkbox.
3. Select the Copy option (Red) to start archive.
4. Selected items are then saved to the USB device.
5. The USB export progress is displayed as a %. On completion the status will read 'Archive Complete'.

Appendix A - Pin-outs - For reference only

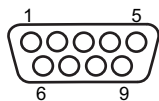
Note: *Greyed text refers to features that will be available if the mode is changed from Console to DVR or Encoder, they are not available in the Console configuration. They are included for reference only.*

Alarm & Serial Pin Outs

Using Serial Ports

It is possible to connect a variety of telemetry cameras to the unit, use the following table as a guide to the serial port connections.

Note: *The Serial 1 port and the keyboard connector utilise the same 485 bus which can provide either keyboard support or telemetry. Both Encoder and DVR mode defaults to telemetry, Console defaults to keyboard operation.*



Alarms

The unit supports 4 normally open/closed alarm inputs via the back panel or one Global keyswitch input with camera specific inputs configurable as entry/exit alarms.

Alarm Connections

Pins	Connections
1 - 4	Alarm Inputs 1-4
5	Auxiliary Alarm Input
6-9	Ground

Relays

The unit support up to two 24V 200mA relays

Relay Connections

Pins	Connections
6 & 7	Relay 1 signal
8 & 9	Relay 2 signal

Appendix B - User Logging

User Activity Logging

User Activity logging can be enabled or disabled via the System -> Features -> System menu. When this feature is enabled, the unit will record all actions performed via the user interface. These actions include Viewing the live stream, activating telemetry, altering the unit configuration, viewing recorded video, archiving video and any system events such as restarting the unit.

Data recorded will include the user name, login time and date, what action was performed, which channels were viewed and which telemetry instructions were issued.

The log files will be retained on the unit for as long as any related video files are kept. One log file will be created daily as a text file and will be named automatically (using the date of creation), and stored in the logs directory on the unit. This can then be downloaded via ftp if required.

Action	Stored Data
User Login	Username, Login
Local Archive	Username, Media
Remote Raw Archive 1	http Username, Submission requesting archive time
Remote Selective Archive	http Username, Submission requesting archive time
Remote Raw Archive 2	FTP Username, List of downloaded files
Telemetry	IP address of user, Local or Remote, Channel Controlled, Command sent
Configuration	Username, Local or remote, Menus changed, Items changed
Playback	Username, Remote, Channel viewed, From time
Live	Username, Remote, Channel viewed
System Events	Username, Event Info

Appendix C - ‘About’ Pages

The following pages detail the menus available via the ‘About’ configuration option (System->Status->About).

General Information

This page gives an overview of the units current settings including IP address, connections to the camera, the locations that data is being read from and written to, and which recording profile is active.

General Information

Useful Information

Setting	Value
Current recording profile	UNSET Mode
Features enabled	Remote Reporting Automatic FTP Download
App drive	mdd0
Data drive	mdd0
FTP drive	mdd0
NVR drive	nvd0
Web drive	mdd0
Log drive	mdd0
PC apps drive	mdd0
Video drives	
Connected clients	0.0.0.0
Your IP address	172.17.52.6

About

Refresh

About (Blue)
Refresh (Purple)

Opens the *About* page
Refreshes the current page


Camconfig Details






Note: Greyed menu option will be available if the mode is changed from Console to DVR or Encoder, they are not available in the Console configuration. They are included for reference only.

This page displays the capabilities of a connected camera in terms of resolution and supported compression formats. This camera does not support audio, alarms, relay or lens de-warping so all these parameters return 0.

Camconfig Debug

Camera Configuration Data

Camera	Property	Value	Type
1: Camera 1 Camera not recording  Camera class: Standard Resolution	every_string	vid_std=0&hwm=640&vwm=480&aspect_ratio=4:3&resolution_codes=VGA,QVGA,Q2VGA&resolution_codes=7.68mp&mpeg_enabled=TRUE&jpeg_enabled=TRUE&h264_enabled=TRUE&alarms=0&relay=0&audio_in=0&0&audio_out=0&0&lens_type=0	string
	vid_std	0	number
	hwm	640	number
	vwm	480	number
	aspect_ratio	4:3	string
	resolution	VGA,QVGA,Q2VGA	object
	resolution_codes	4,7,8	object
	mpeg_enabled	true	boolean
	jpeg_enabled	true	boolean
	h264_enabled	true	boolean
	alarms	0	number
	relay	0	number
	audio_in	0	number
	audio_out	0	number
	lens_type	0	number

About (Blue)

Refresh (Purple)

Opens the About page

Refreshes the current page

Capabilities

This information page shows the capability settings for the camera. These parameters determine how the camera performs and what options are available on the web pages.

Unit Capabilities		
GUI		
Capability	top.capability.	
Has help videos available	has_help_videos	
Unit has map support	maps	
Diagnostics menu available	diagnostics	
Goto command will show the timeline	goto_timeline	
Colour hotkey buttons are provided in the menus	has_colourbar_menus	
Unit has PowerScript management page	powerscript_management	
Unit has Features page	features_page	
Unit supports touch screen interface	supports_touch_screen	
Unit 32bit media output	supports_32bit_media	
Show time and date on OSD	show_time_date	
Show video status on OSD	show_video_status	
Show camera number prefix on OSD	prefix_camera_number	
Supports setup and display of privacy zones	has_privacy_zones	
Has live PPS recording counter	live_pps_counter	
Click5 user interface	click5_ui	
Has RVRC control page	rvc	
Has event search page	event_search	
Has decoder options	decoder_option	
Unit has User Logging	has_user_logging	
Hardware		
Capability	top.capability.	
Serial port capabilities defined by main application	app_serial_cap_defs	
Use testwall chip 0 bit colour limit etc	testwall	

About (Blue)
Refresh (Purple)

Opens the *About* page
Refreshes the current page

UI Information

The UI page shows the settings stored in the camera which configure the user interface.

User Interface Information	
Useful Information	
Setting	Value
Product	DV-IP NV1
Prodcode	NV1
Product Brand	NV
Product Level	NV1
Detected Client OS	windows
Java Applet Path	/gui/viewer/applets/windows/viewer-applet.jar

About (Blue)

Refresh (Purple)

Opens the *About* page

Refreshes the current page

Camera Overview

This page details the general settings assigned to each of the local camera channels.
To edit the settings assigned to any of these cameras;

Click on Local Camera Setup to edit the settings held in the SD Advanced;

Click on 'Setup' to open the Setup menu on the connected video source.

Camera Overview

Current Camera Configuration

1 : Camera 1	Type: Not currently connected Manually Assigned: No
<div>Local Camera Setup</div>	
2 : Camera 2	Type: Not currently connected Manually Assigned: No
<div>Local Camera Setup</div>	
3 : Camera 3	Type: Not currently connected Manually Assigned: No
<div>Local Camera Setup</div>	
4 : Camera 4	Type: Not currently connected Manually Assigned: No
<div>Local Camera Setup</div>	
5 : Camera 5	Type: Not currently connected Manually Assigned: No
<div>Local Camera Setup</div>	
6 : Camera 6	Type: Not currently connected Manually Assigned: No
<div>Local Camera Setup</div>	
7 : Camera 7	Type: Not currently connected Manually Assigned: No
<div>Local Camera Setup</div>	
8 : Camera 8	Type: Not currently connected Manually Assigned: No
<div>Local Camera Setup</div>	

Unalloc

Refresh

Unalloc (Green)

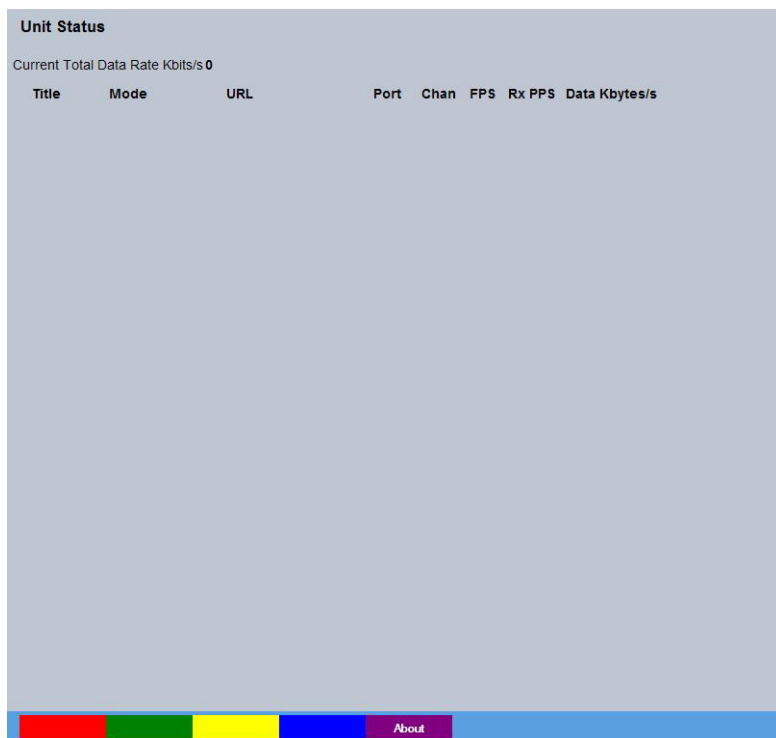
Select to open the Camera->Unallocated Cams page

Refresh (Purple)

Refreshes the information on the current page.

IP Network Load

This page illustrates the network traffic utilised by the unit. The page refreshes every second.



Refresh (Purple)

Refreshes the information on the current page.

Appendix D - IP Address via Serial

For guidance on locating the unit's IP address via a serial port connection, please see below:

Locating the unit IP address using the serial port

1. With the mains power off, connect a standard 9DF-9DF RS232 communications cable from the PC to one of the serial port connections on the rear of the unit.
2. On the PC, click Start->Programs->Accessories->Communications->Hyperterminal and create a new connection via the COM port using these settings.

Bits per second	115200
Data Bits	8
Parity	None
Stop bits	1
Flow Control	None

3. Power the unit, the Power LED on the unit will illuminate.
4. Hyperterminal will display the communications information as the unit boots up. This will include the IP address, Subnet and Gateway.

Appendix E - Multicast

The Multicast page allows recordings from the unit's camera input to be forwarded to a port address. To utilise the Multicasting function (refer to Configuration Menu: Network Settings->Multicast SetUp for guidance).

This system has been validated using the 'Videolan VLC media player for MS Windows. The Videolan VLC media player can be downloaded free of charge from:

www.videolan.org/vlc/download-windows.html

Note: *Multicast can only used for live viewing, requests for stored images and events will still need to be made via the Viewer menu.*

To configure your PC to utilise VLC

Version 1.0.5

- * Select Media | Services Discovery | SAP announcements
- * Select View | playlist | SAP Announcements

All video servers with multicast enabled should then appear in the playlist window. Double click a server to start streaming data from it.

Version 0.8.6

- * In VLC select Playlist -> Manage -> Services Discovery -> SAP Announcements
- * Wait for the server to appear under "Session Announcements (SAP)" in the Playlist window.
- * Click on one of the items advertised by the server.

The server broadcasts SAP announcements periodically, the packets contain SDP entries which describe the stream contents for each multicast enabled camera. VLC listens for SAP announcements and adds them to the playlist.

Appendix F - Monitor Output

Open a File Transfer Protocol (FTP) client to connect to the unit, refer to the FTP client's supporting documentation for guidance on how to connect to the unit.

Note: *The URL of the unit will be required before a connection can be made.*

No username/password is required for an FTP connection by default. If they have been assigned however, these must be entered before access will be allowed. FTP access username/passwords can be configured via the 'Admin FTP' option displayed in the 'User Accounts' menu (Display menu->User Accounts).

When access to the unit has been granted, navigate to the 'etc' folder.

Within this folder, located the voutconfig.example.ini file.

Rename it to voutconfig.ini and reset the machine. This will provide more default screen options which may better suit the monitor in use.

If this does not provide a better alternative, contact Technical Support.

Appendix G - Unit Specification

LANGUAGES

Currently: English, French, Italian, German, Spanish, Russian, Czech, Danish, Finnish, Norwegian, Swedish & Dutch.

HD NETVU CONSOLE DATA

- 2 port 10/100 Ethernet switch
- 4 analogue 75 Ohm video inputs
- 1 analogue 75 Ohm video output
- 1 HDMI output
- 3 USB ports
- 2 serial ports (sharing a single 9 way D connector)
- 1 keyboard port compatible with KBS1 and KBS2
- 1 port for IR remote control extender

CAMERAS

4 analogue inputs. Auto detection on power up. Alarm on Camera Fail. 8 camera streams supported of which 4 can be analogue with the remainder being made up of IP streams.

RECORDING

Real-time recording or encoding at up to 200/240pps CIF across all connected cameras

For example: 4 cameras 25pps @ 2CIF per camera.

2 cameras 25pps @ 4CIF

1 camera, 25pps @ 720p/1080p or

2 Megapixel (4:3)

MULTICASTING

The HD NetVu Console can push any live video stream onto a network to enable multiple viewers to view the same data stream (using a suitable media player) without having to connect and request images. This form of multicasting reduces the demands on the unit and improves system performance.

DECODING

Decode up to 400pps @ CIF in MPEG4 or 200pps @ CIF in H.264

For example: Decode up to 3 real time 4CIF streams in MPEG4

Decode up to 12 real time CIF streams in MPEG4

Decode 12pps 2MP or 720p/1080p stream to a 720p HDMI monitor output

AUDIO

1 line audio input

1 line audio output

TELEMETRY

Built-in RS485/Twisted pair protocols including but not limited to the following:

- Dedicated Micros 2040
- Dedicated Micros 2060
- Dedicated Micros Oracle Dome
- Honeywell
- VCL Orbiter & Jupiter Micro-spheres
- GE CyberDome
- BBV RS485
- StarCard Bosch/Philips G3
- American Dynamics
- Panasonic
- Pelco P
- Pelco D

STORAGE

32GB of on-board storage via Micro Sd Card (2GB card supplied, optional 16 or 32GB available). Additional storage available via Hi speed 2.0 USB (480Mbit/s) port or AoE.

AoE support for localised external video storage

NETWORK SUPPORT

DCCP, DHCP, ICMP, TCP, UDP, IP, ARP, RTP, Telnet, FTP, AoE and SNMP

WEB PAGE CONFIGURATION

Simple Web page configuration will allow the following functions to be configured: Unit setup, Manual update of viewing profiles, Network, Audio and Alarm settings

BROWSER:

IE 5.5 / Firefox 2.0 and above

DEVELOPER:

Java via Dedicated Micros SDK

POWER SUPPLY:

12W External Power Supply

POWER OVER ETHERNET

IEEE 802.3af-2003 (12.95W). End span and bridging injector supported

DIMENSIONS:

125 (L) including connectors x 58(H) x 130 (W)

WEIGHT :

0.77Kg

MATERIAL:

Extruded aluminium case

ENVIRONMENTAL OPERATING TEMPERATURE:

-10° to +50°C (14° to 122°F)

STORAGE TEMPERATURE:

5° to + 40°C

RELATIVE HUMIDITY:

10% to 85% relative humidity, non condensing

WARRANTY

3 years

Notes

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